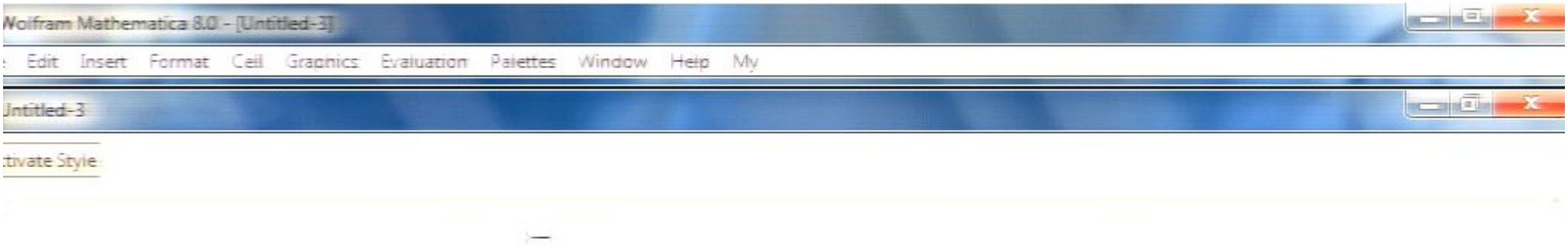
Title: Very Advanced Mathematica Topics

Date: Aug 06, 2011 11:15 AM

URL: http://pirsa.org/11080036

Abstract: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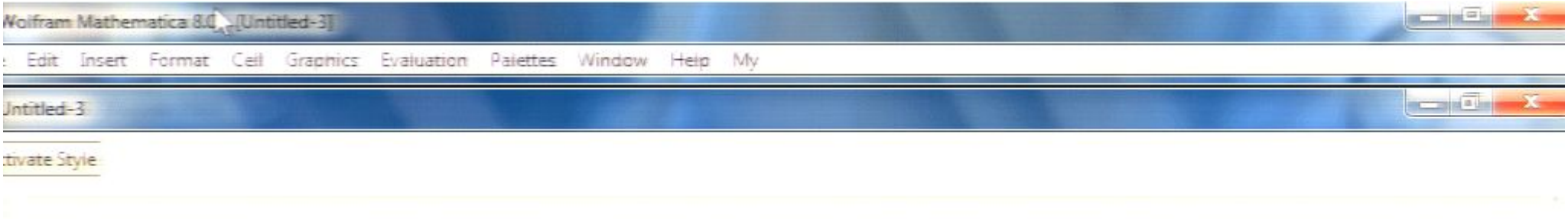
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Clear[f];
f[z_] := f[z] = NIntegra
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```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^]^]
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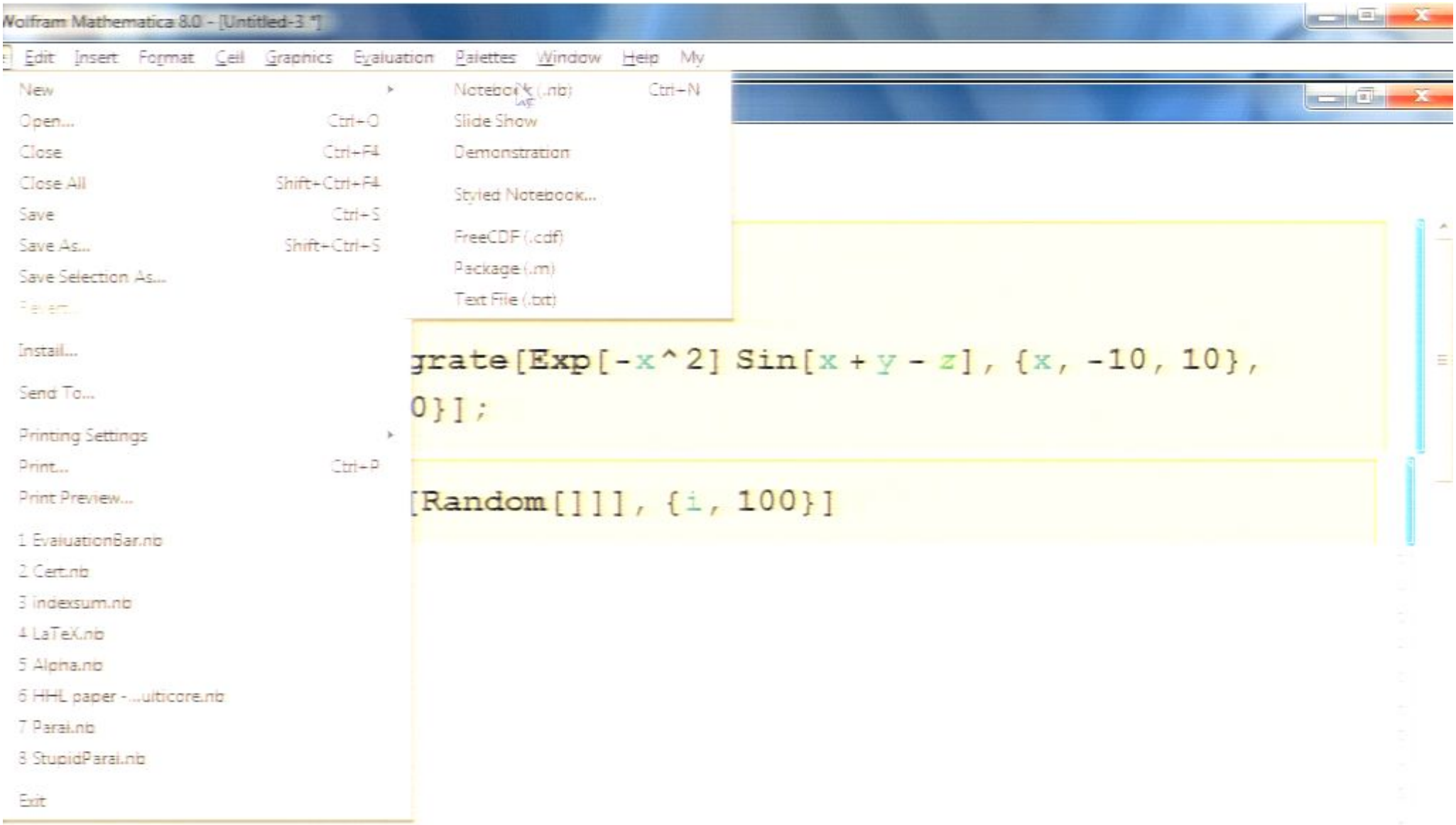
```
Clear[f];
f[z_] :=
  f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10},
    {y, -20, 20}];
```

```
Table[f[Random[]], {i, 100}]
```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grate[Exp[-x^2] Sin[x + y - z], {x, -10, 10},
0}];
[Random[]], {i, 100}]
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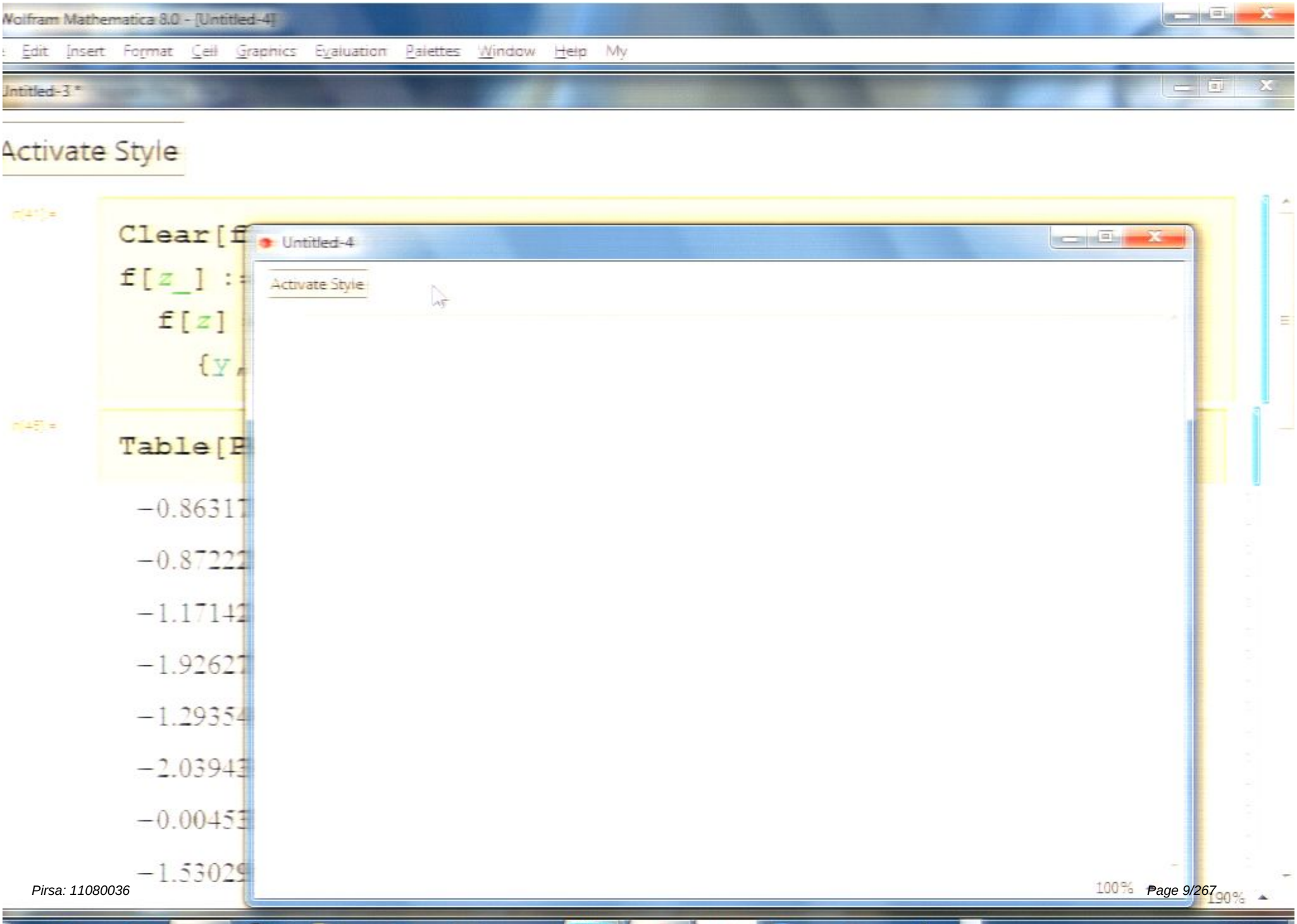
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Clear[f
f[z_] :=
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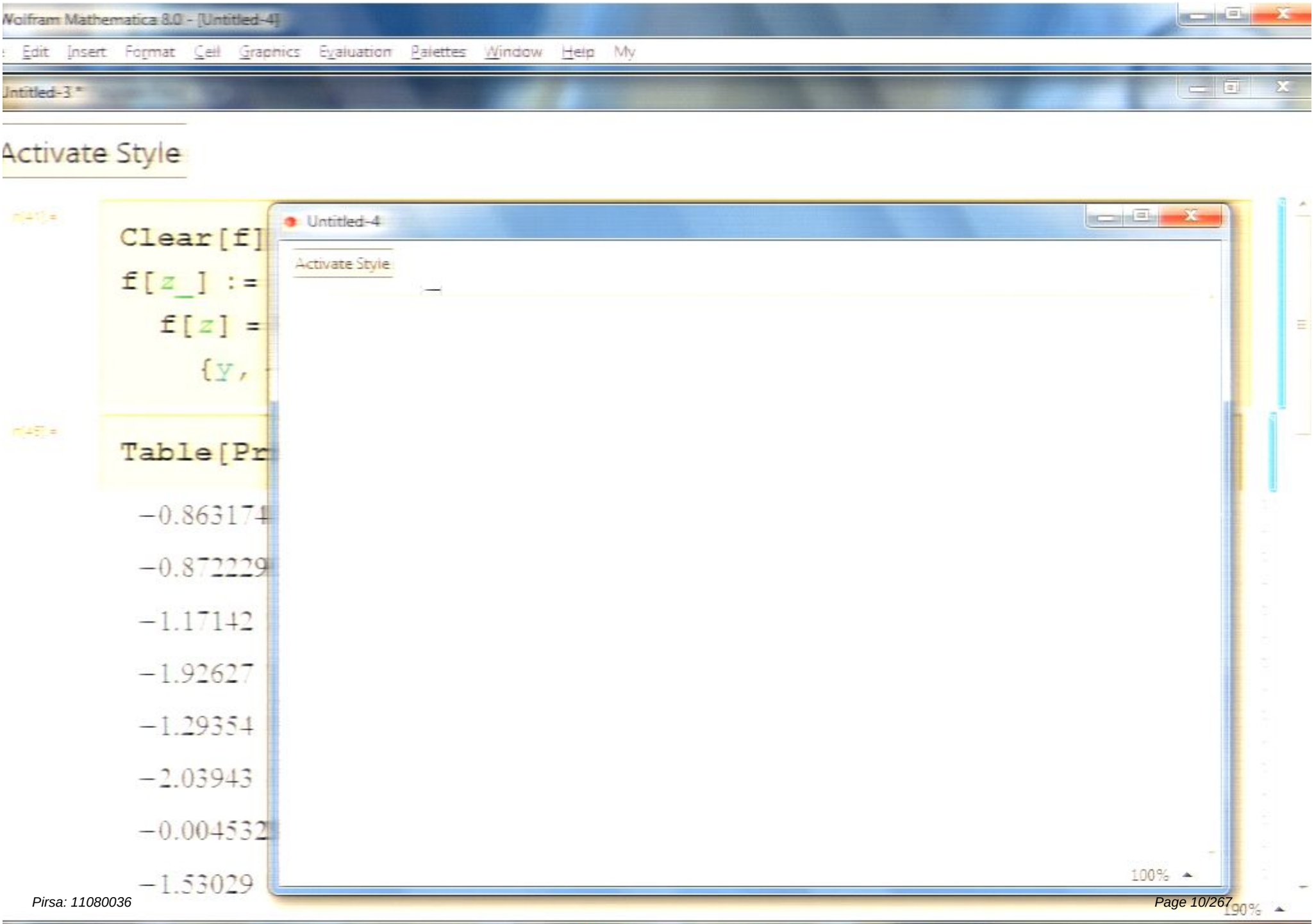
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Clear[f]
f[z_] :=
f[z] =
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```
Clear[f];
f[z_] :=
  f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10},
    {y, -20, 20}];
```

```
Table[Print[f[Random[]]], {i, 100}]
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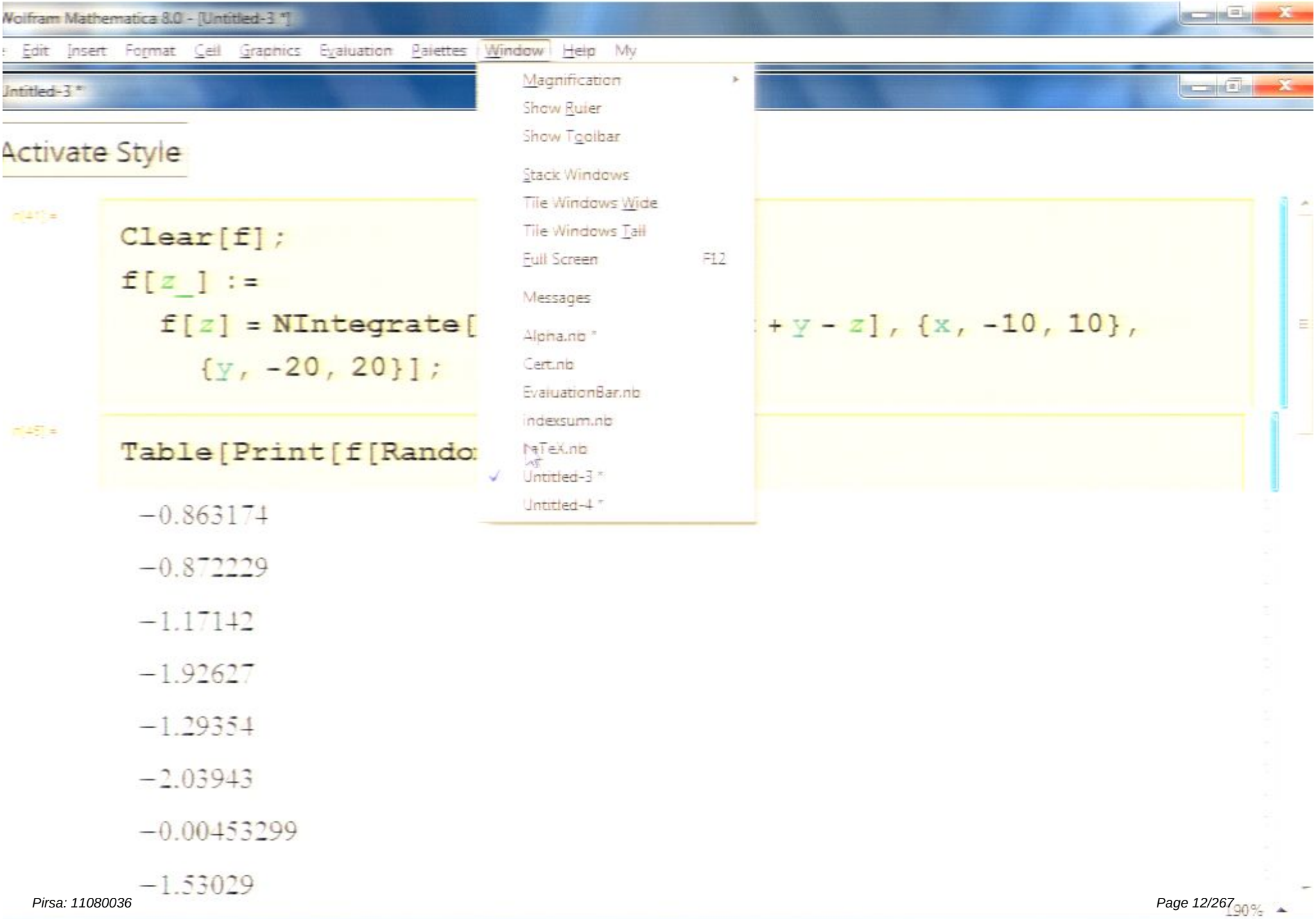
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Clear[f];
f[z_] :=
f[z] = NIntegrate[
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+ y - z], {x, -10, 10},
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Clear[f];
f[z_] :=
  f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10},
    {y, -20, 20}];
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Table[Print[f[Random[]]], {i, 100}]
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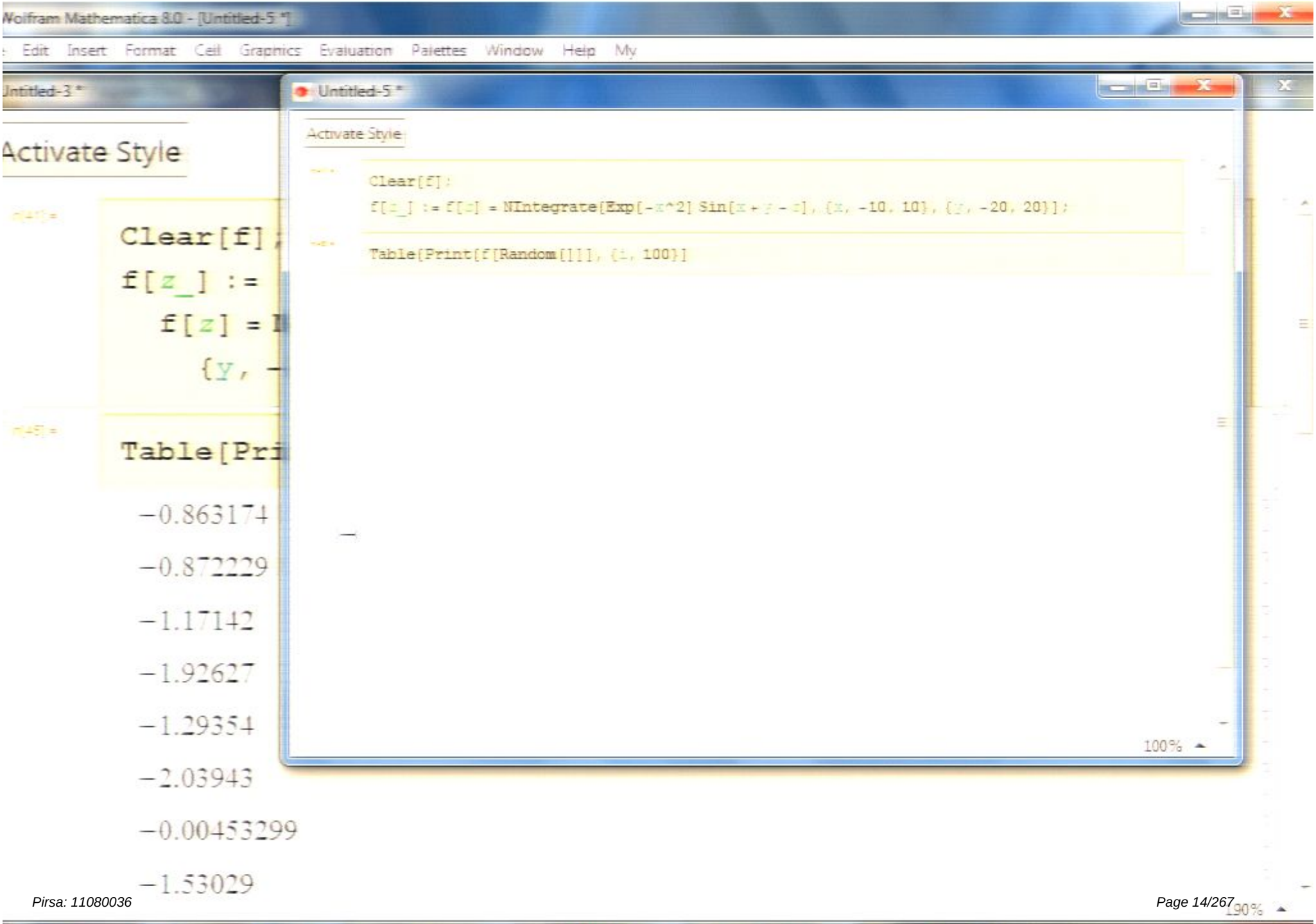
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Clear[f];
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f[z] = I
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Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]], {i, 100}]
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Clear[f];
f[z_] :=
  f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10},
    {y, -20, 20}];
```

```
Table[Print[f[Random[]]], {i, 100}]
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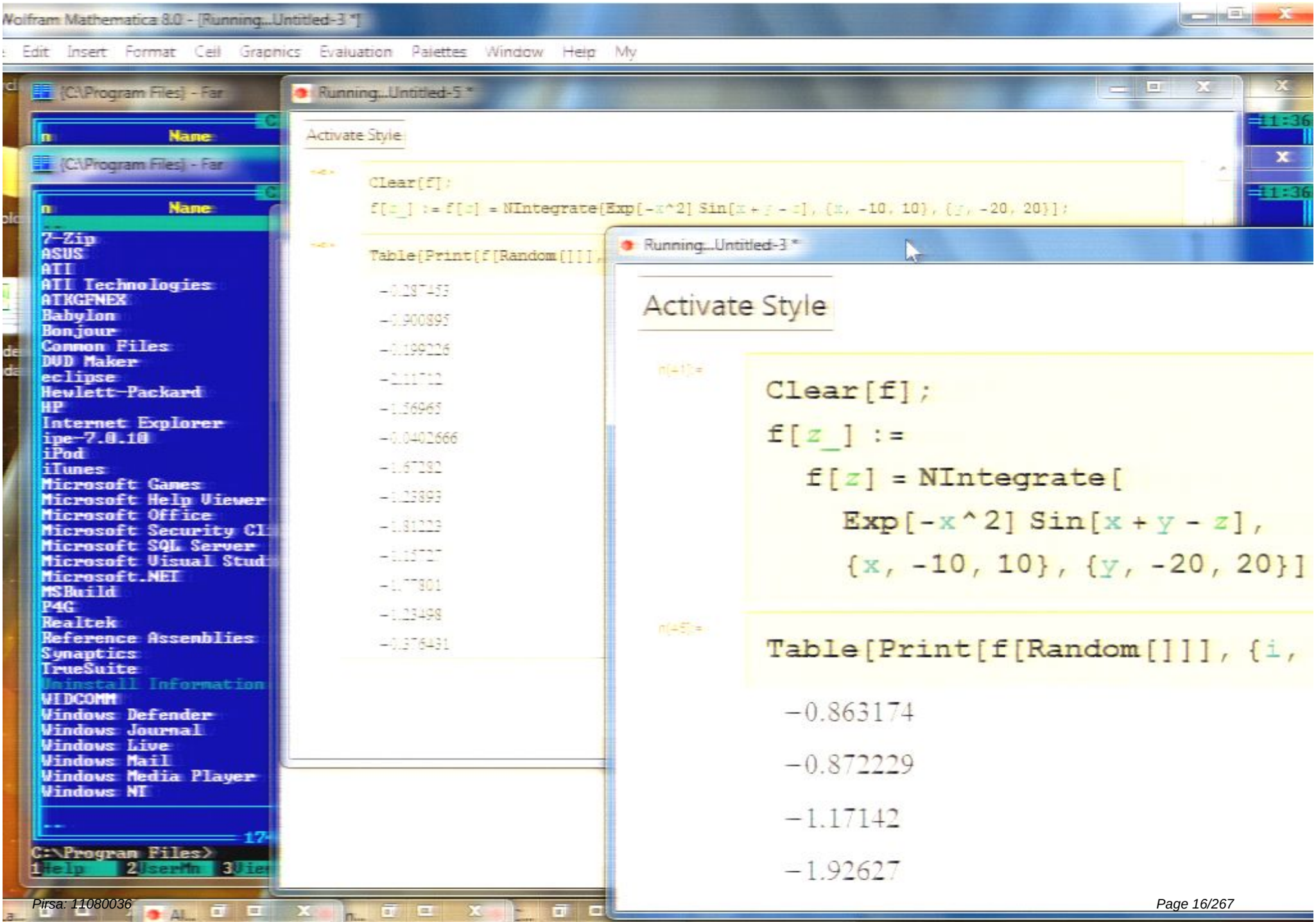
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Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]], {i,
-0.287453
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-1.56965
-0.0402666
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-1.81223
-1.1727
-1.77801
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Clear[f];
f[z_] :=
f[z] = NIntegrate[
Exp[-x^2] Sin[x + y - z],
{x, -10, 10}, {y, -20, 20}]
Table[Print[f[Random[]]], {i,
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Clear[f];
f[z_] :=
  f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10},
    {y, -20, 20}];
```

```
Table[Print[f[Random[]]], {i, 100}]
```

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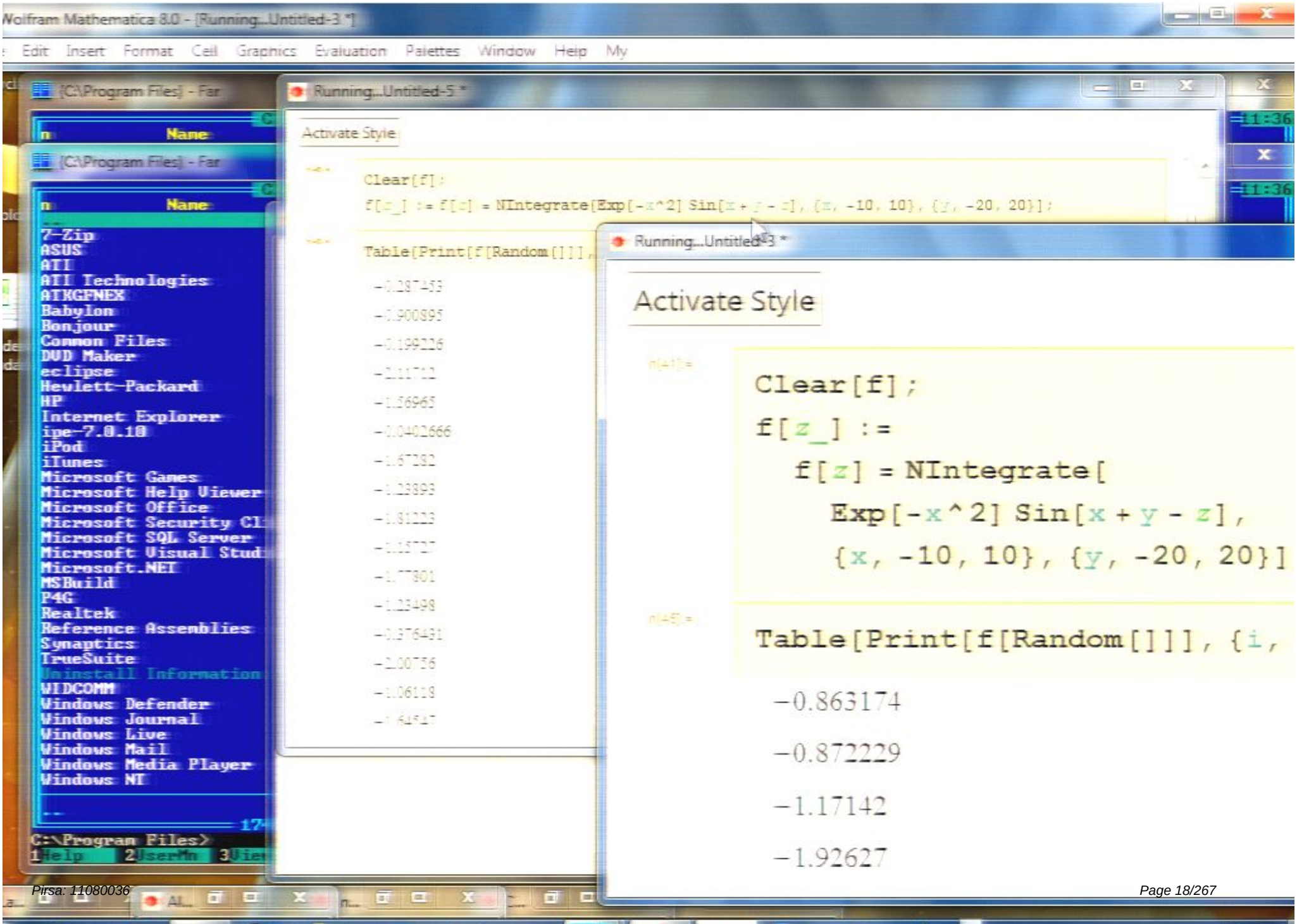
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Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]],
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-0.376491
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In[41]:=
Clear[f];
f[z_] :=
f[z] = NIntegrate[
Exp[-x^2] Sin[x + y - z],
{x, -10, 10}, {y, -20, 20}]
In[45]:=
Table[Print[f[Random[]]], {i,
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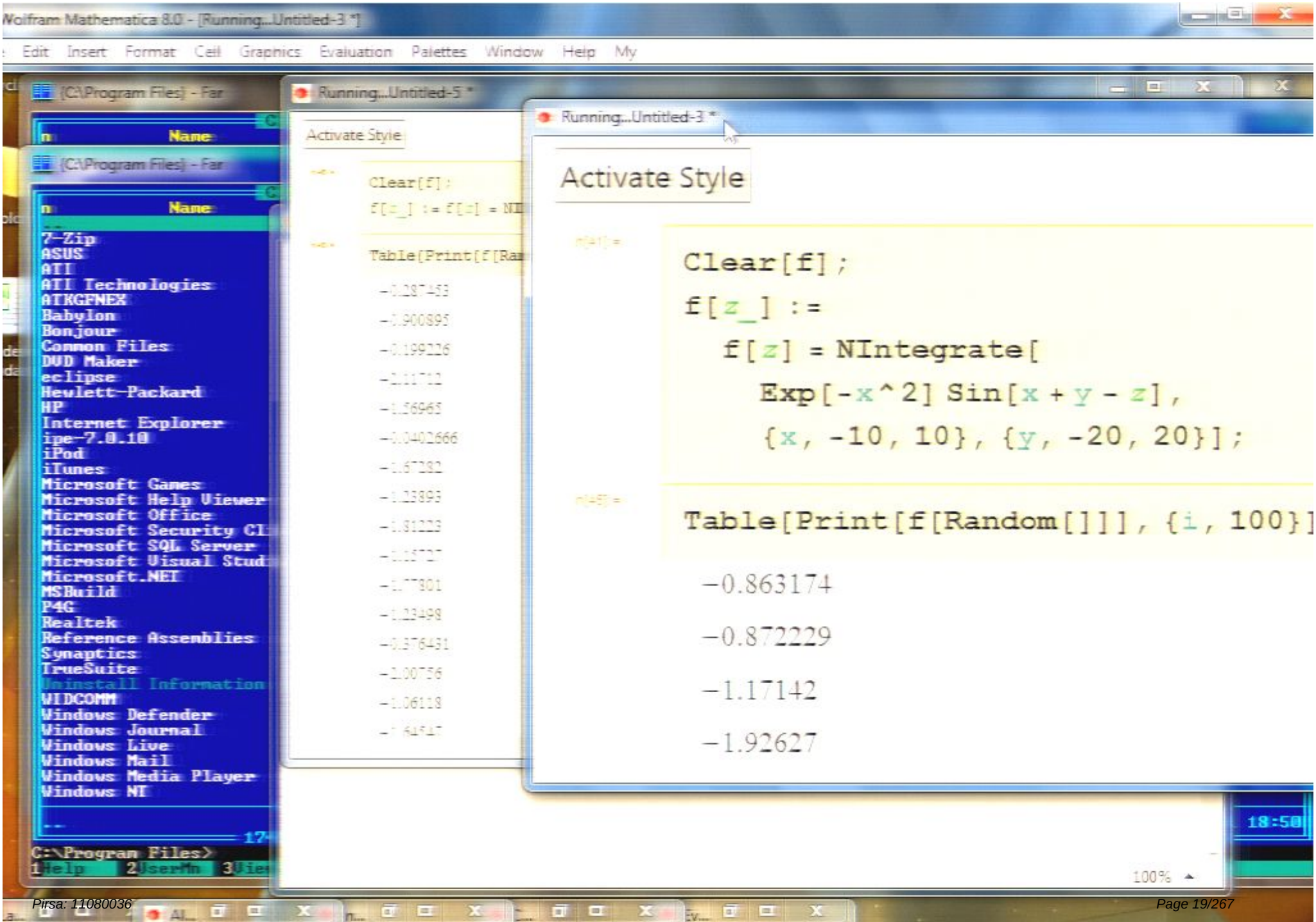
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Clear[f];
f[z_] := f[z] = NI
Table[Print[f[Ra
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Clear[f];
f[z_] :=
f[z] = NIntegrate[
Exp[-x^2] Sin[x + y - z],
{x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]], {i, 100}]
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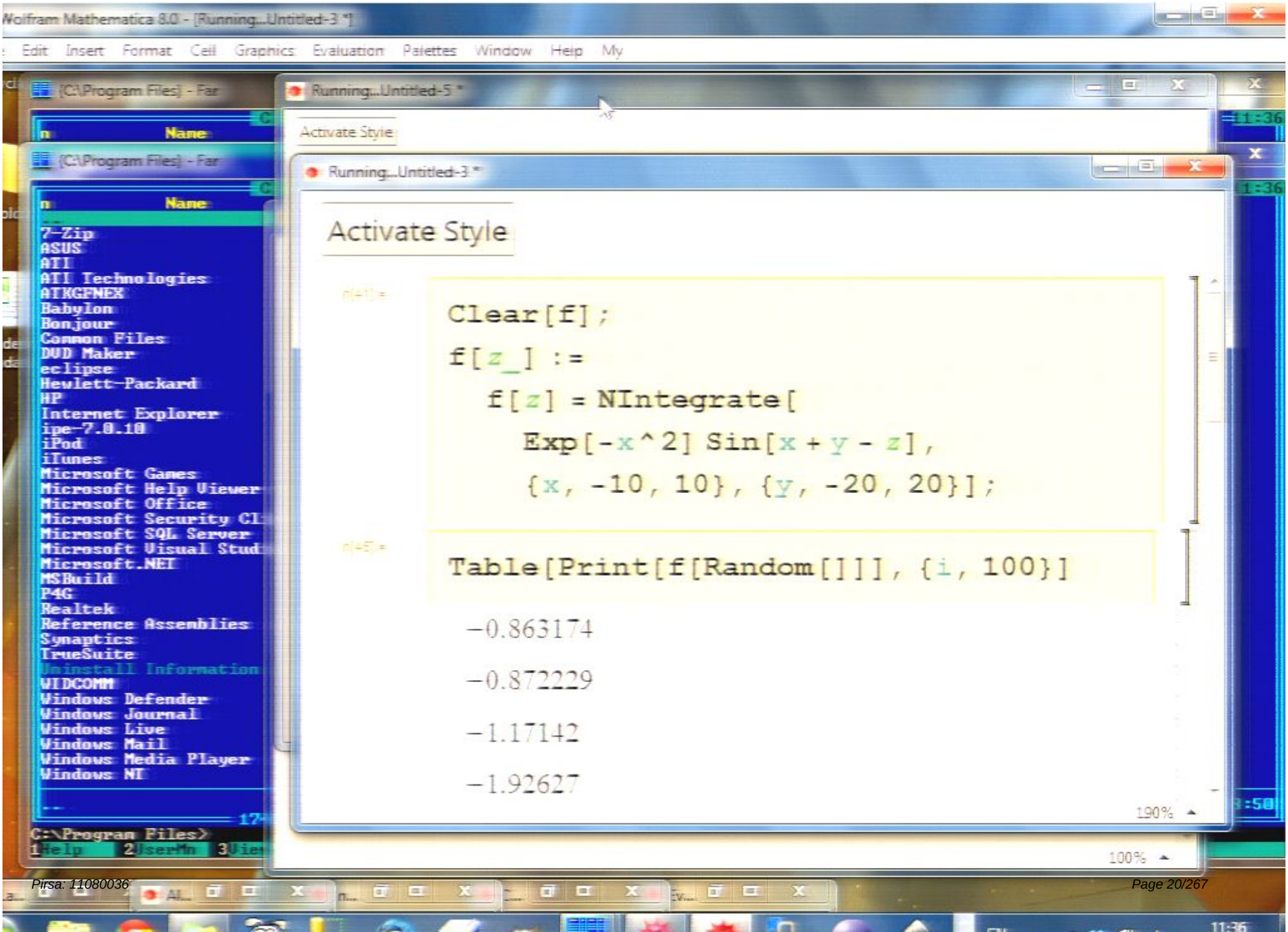
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In[1]:=
Clear[f];
f[z_] :=
f[z] = NIntegrate[
Exp[-x^2] Sin[x + y - z],
{x, -10, 10}, {y, -20, 20}];
In[5]:=
Table[Print[f[Random[]]], {i, 100}]
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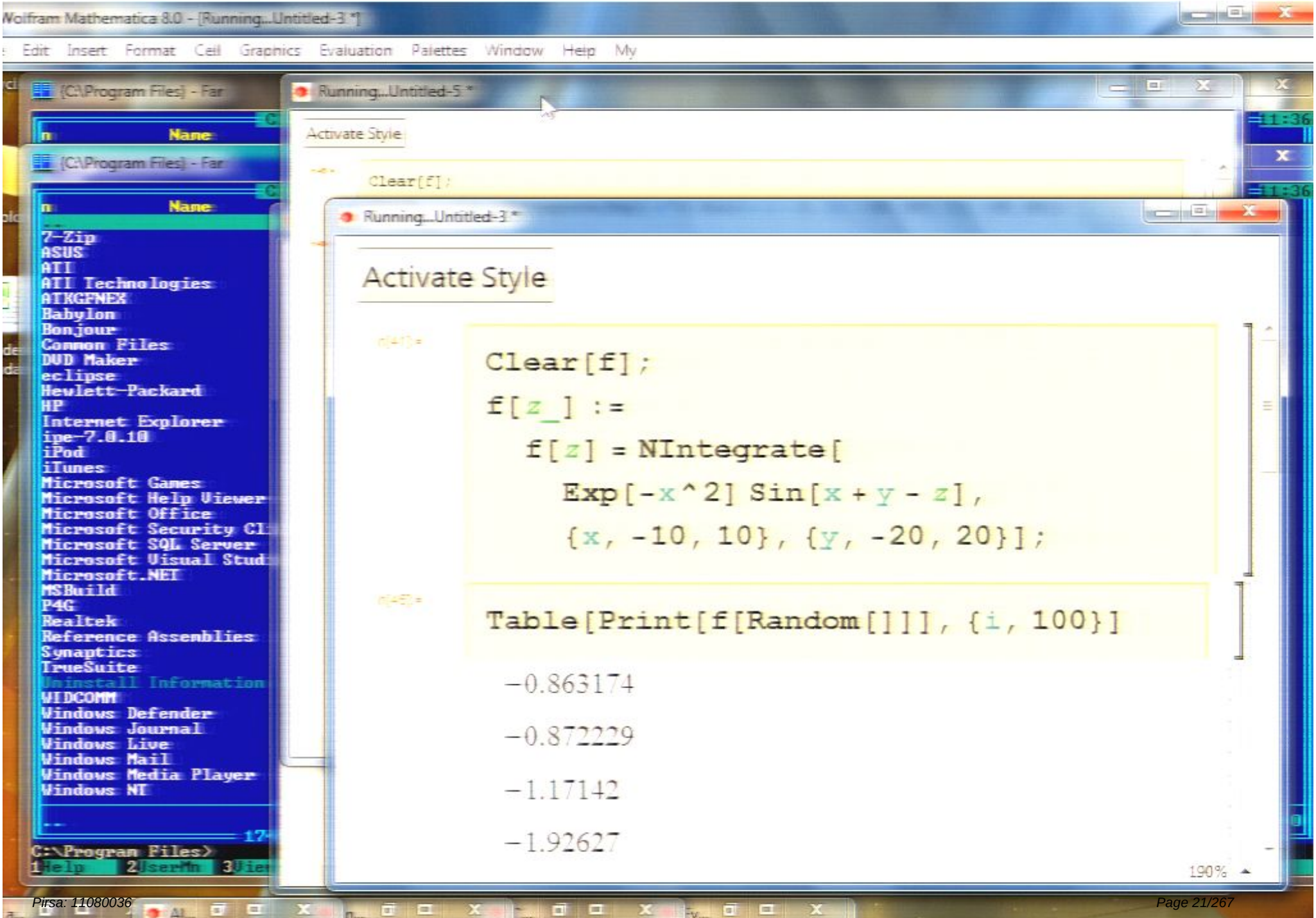
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Clear[f];
f[z_] :=
f[z] = NIntegrate[
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{x, -10, 10}, {y, -20, 20}];
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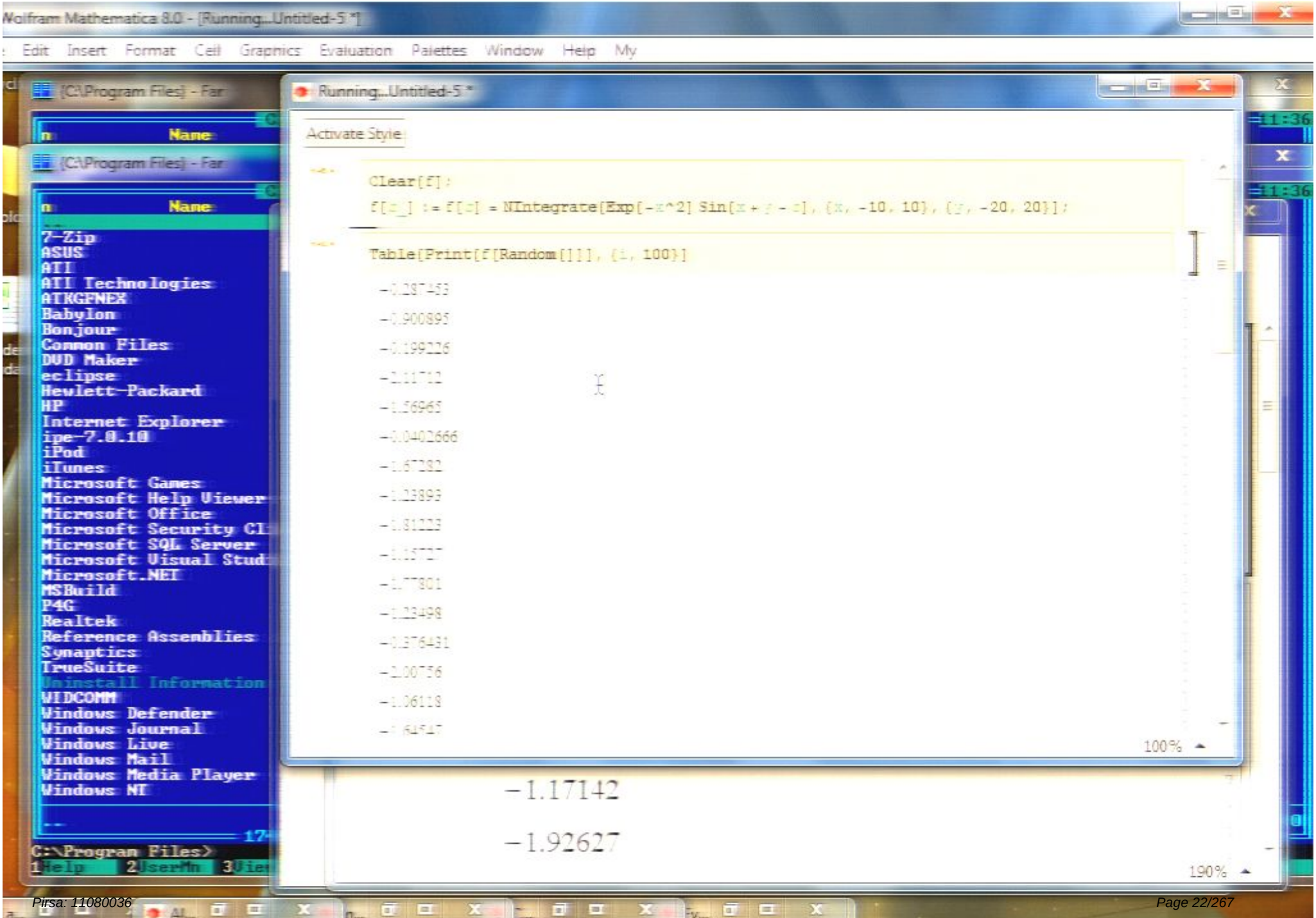
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Clear[f];
f[x_] := f[x] = NIntegrate[Exp[-x^2] Sin[x + y - a], {x, -10, 10}, {y, -20, 20}];
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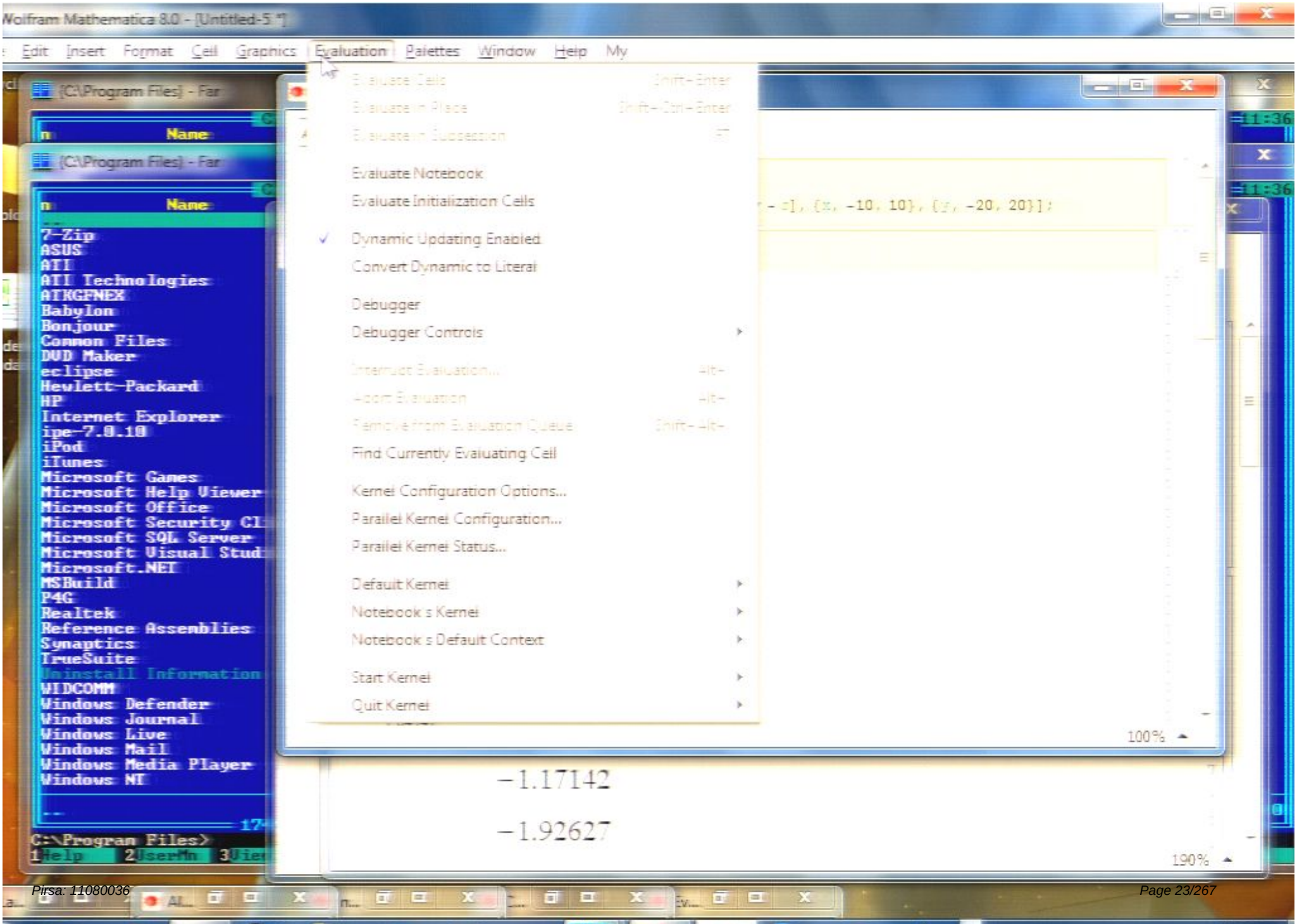
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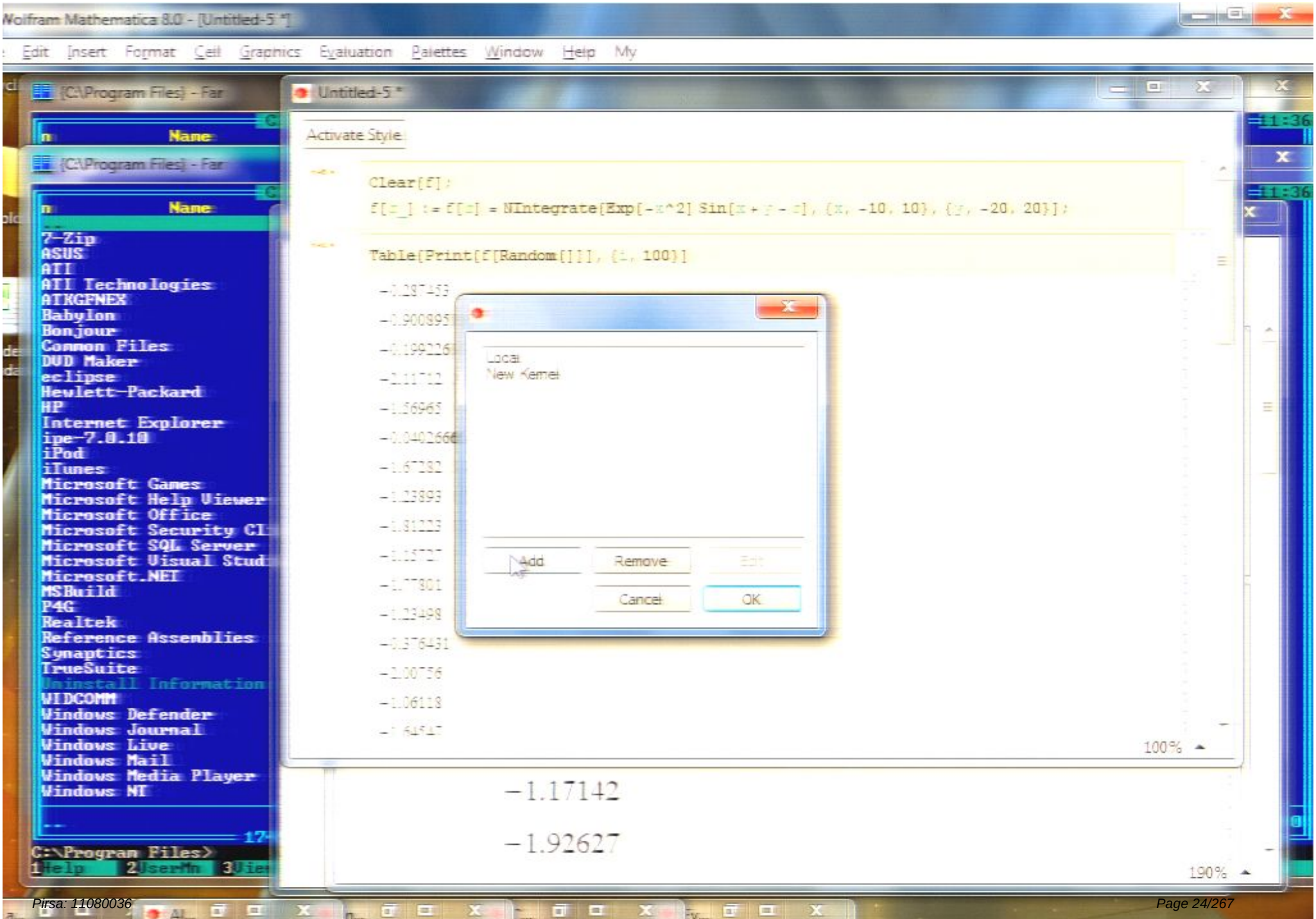
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Clear[f];
f[n_] := f[n] = NIntegrate[Exp[-x^2] Sin[x + y - n], {x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]], {i, 100}]
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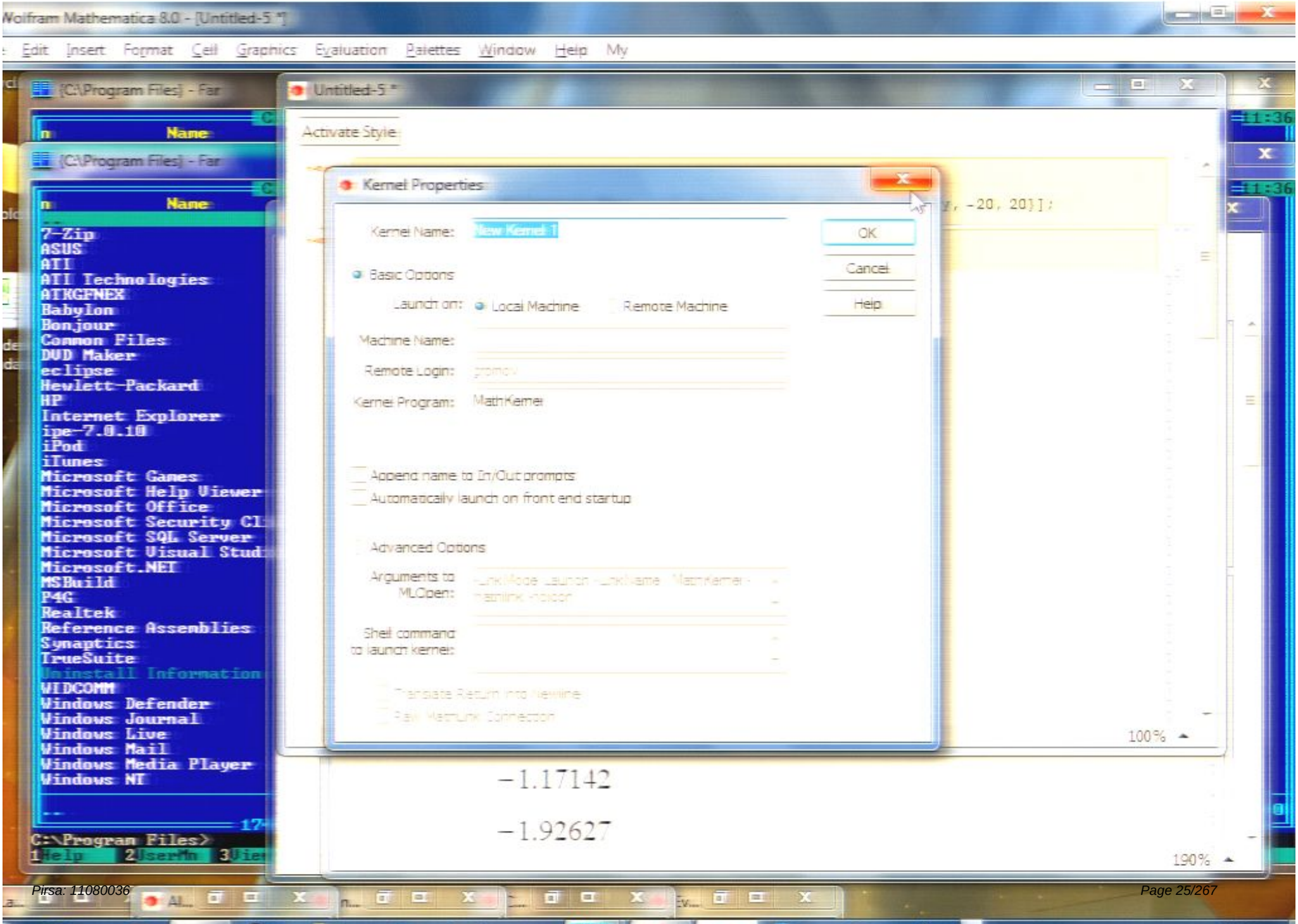
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Activate Style
Kernel Properties
Kernel Name: New Kernel 1
OK
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Help
Basic Options
Launch on: Local Machine Remote Machine
Machine Name:
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Kernel Program: MathKernel
Append name to In/Out prompts
Automatically launch on front end startup
Advanced Options
Arguments to MLOpen:
Shell command to launch kernel:
100%
-1.17142
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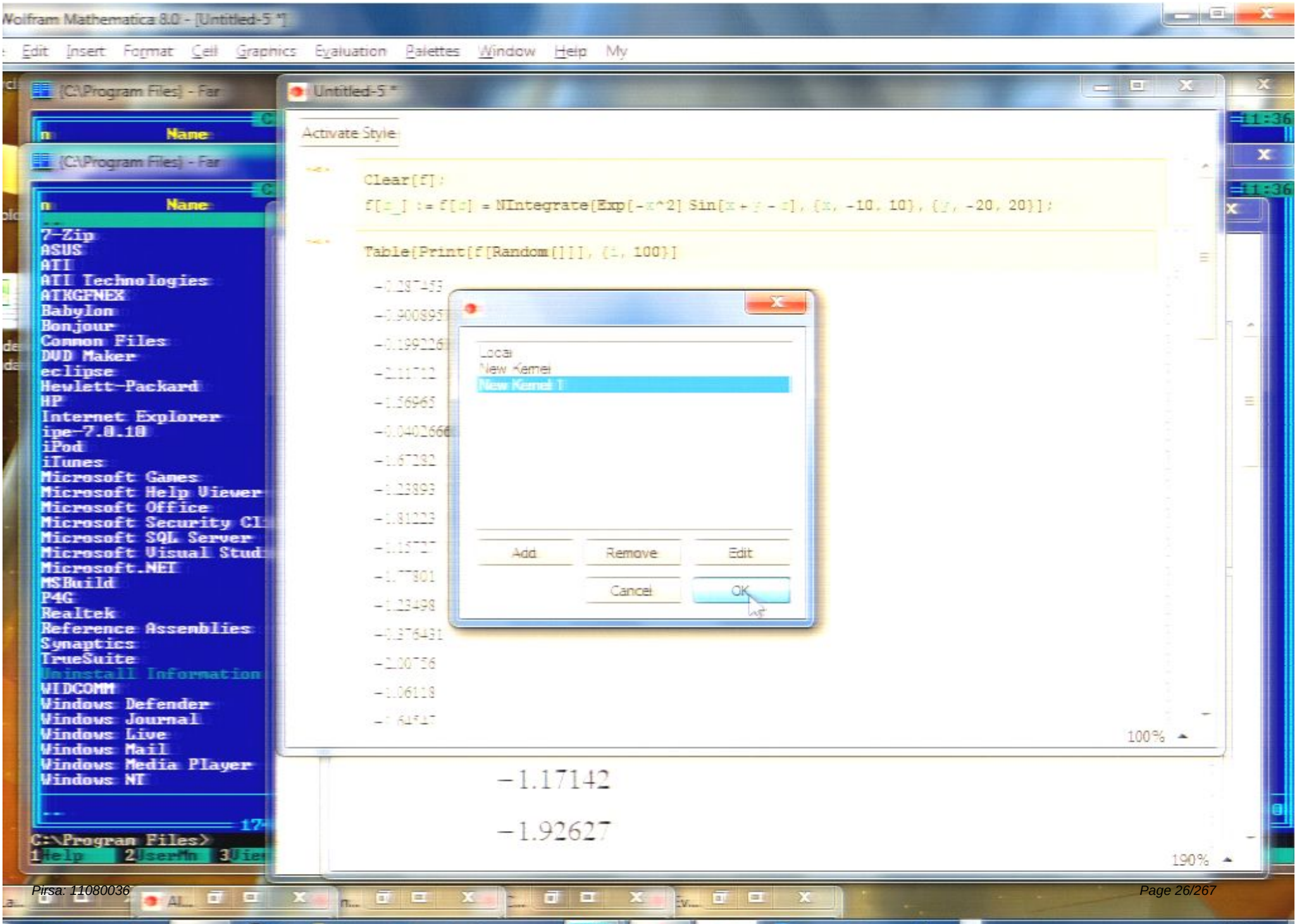
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Activate Style
Clear[f];
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Table[Print[f[Random[]]], {i, 100}]
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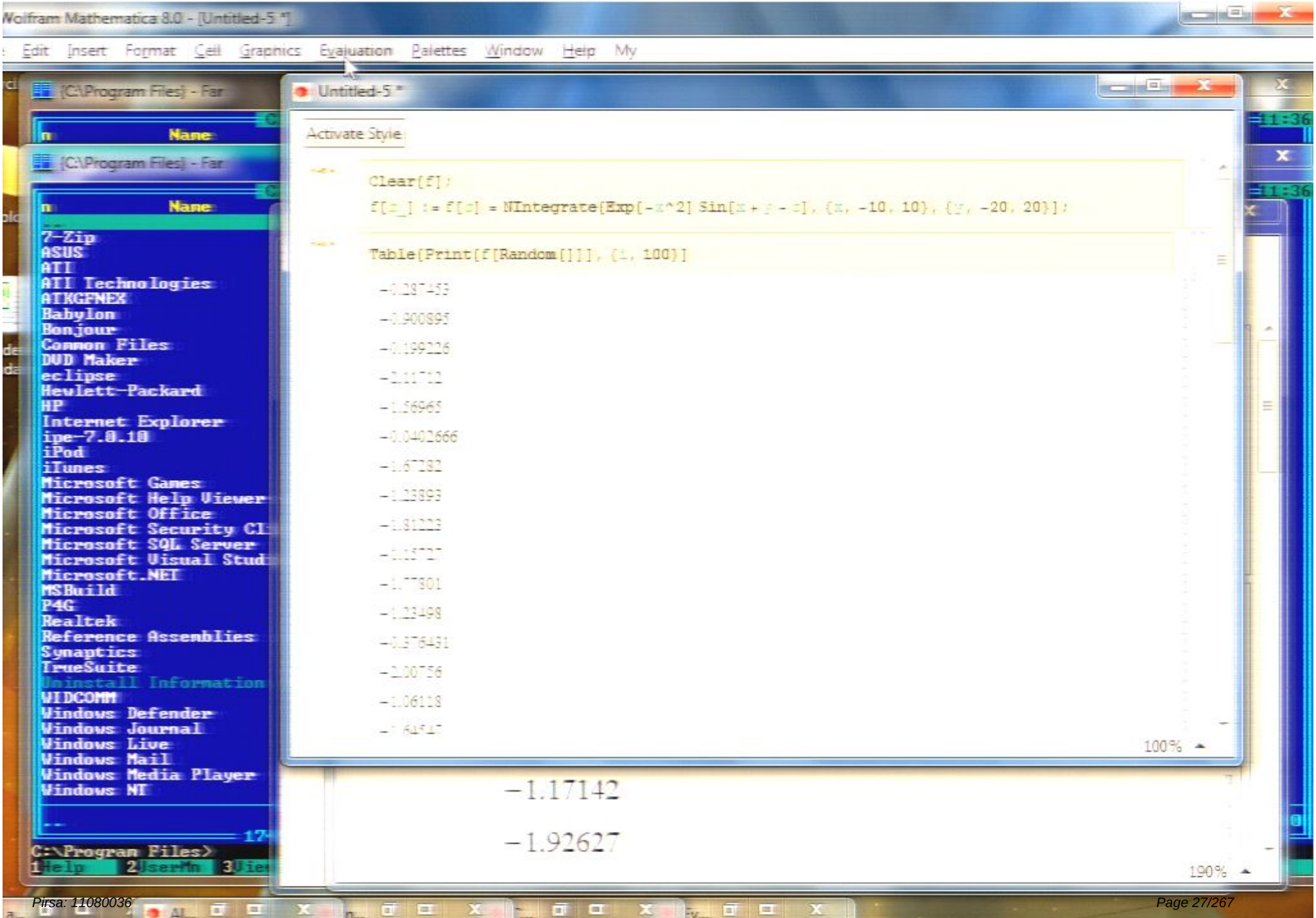
Wolfram Mathematica 8.0 - [Untitled-5 *]
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Activate Style
Clear[f];
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Table[Print[f[Random[]]], {i, 100}]
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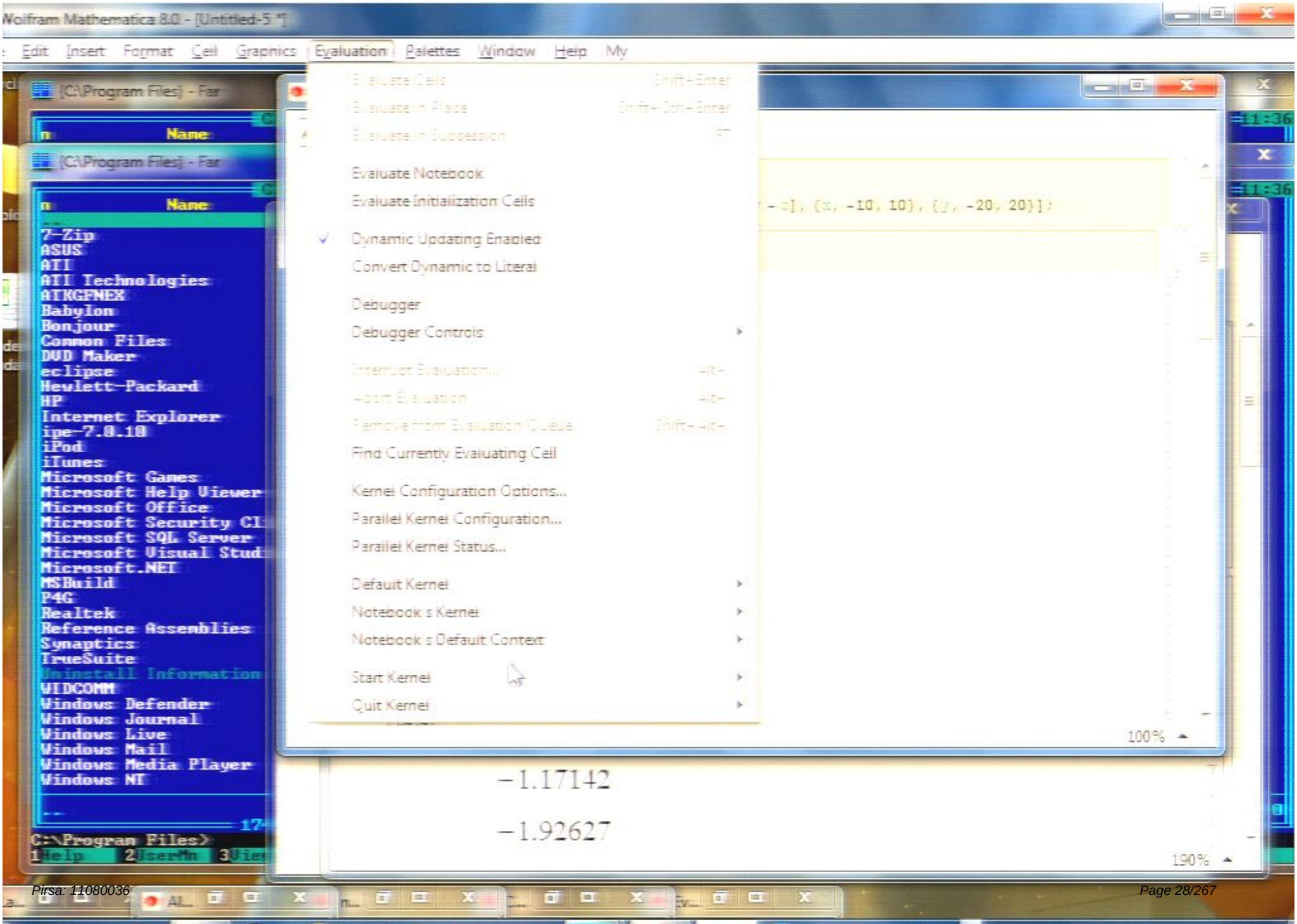
Wolfram Mathematica 8.0 - [Untitled-5 *]
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Parallel Kernel Status...
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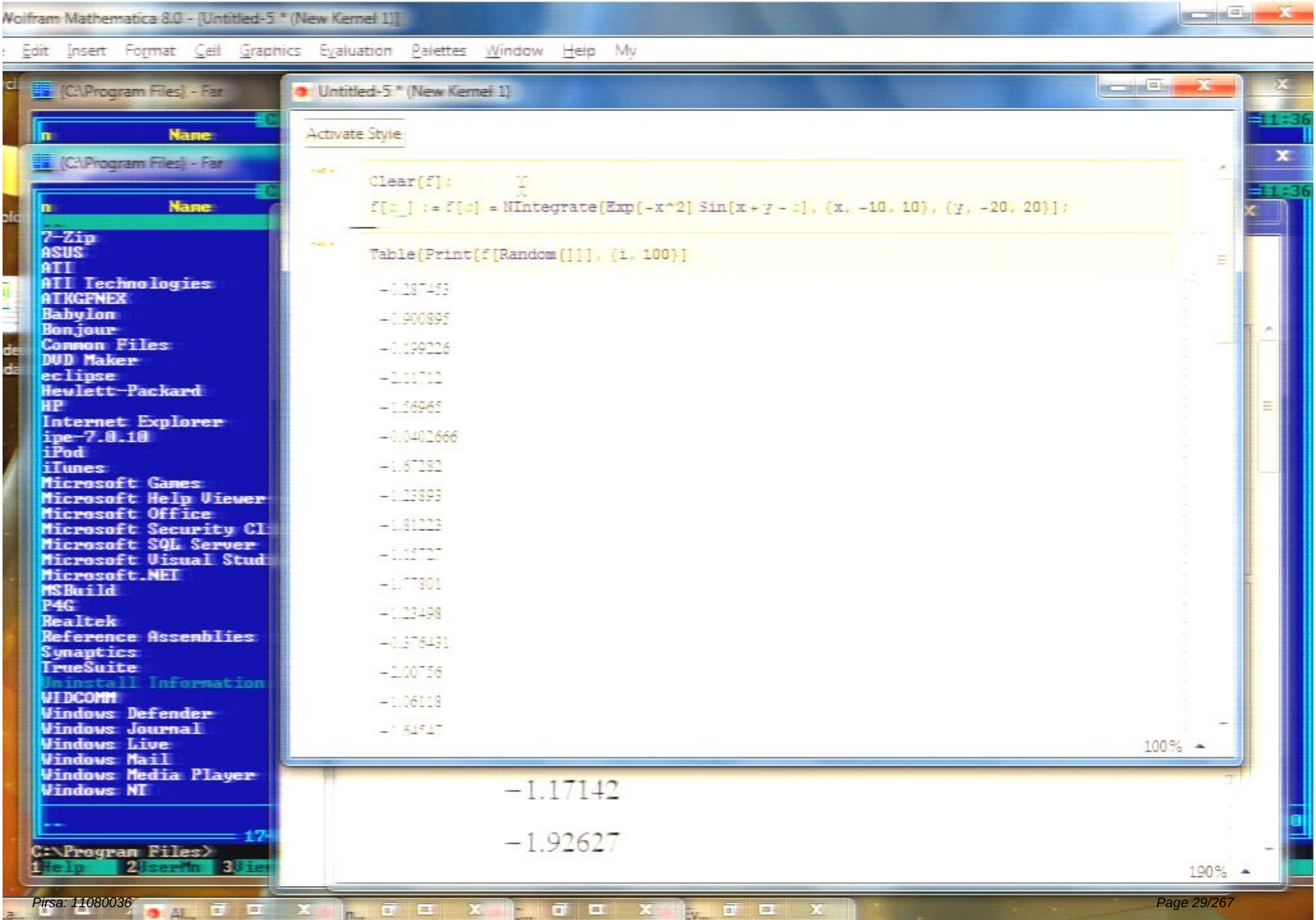
Wolfram Mathematica 8.0 - [Untitled-5 * (New Kernel 1)]
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Clear[f];
f[n_] := f[n] = NIntegrate[Exp[-x^2] Sin[x + y - n], {x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]], {i, 100}]
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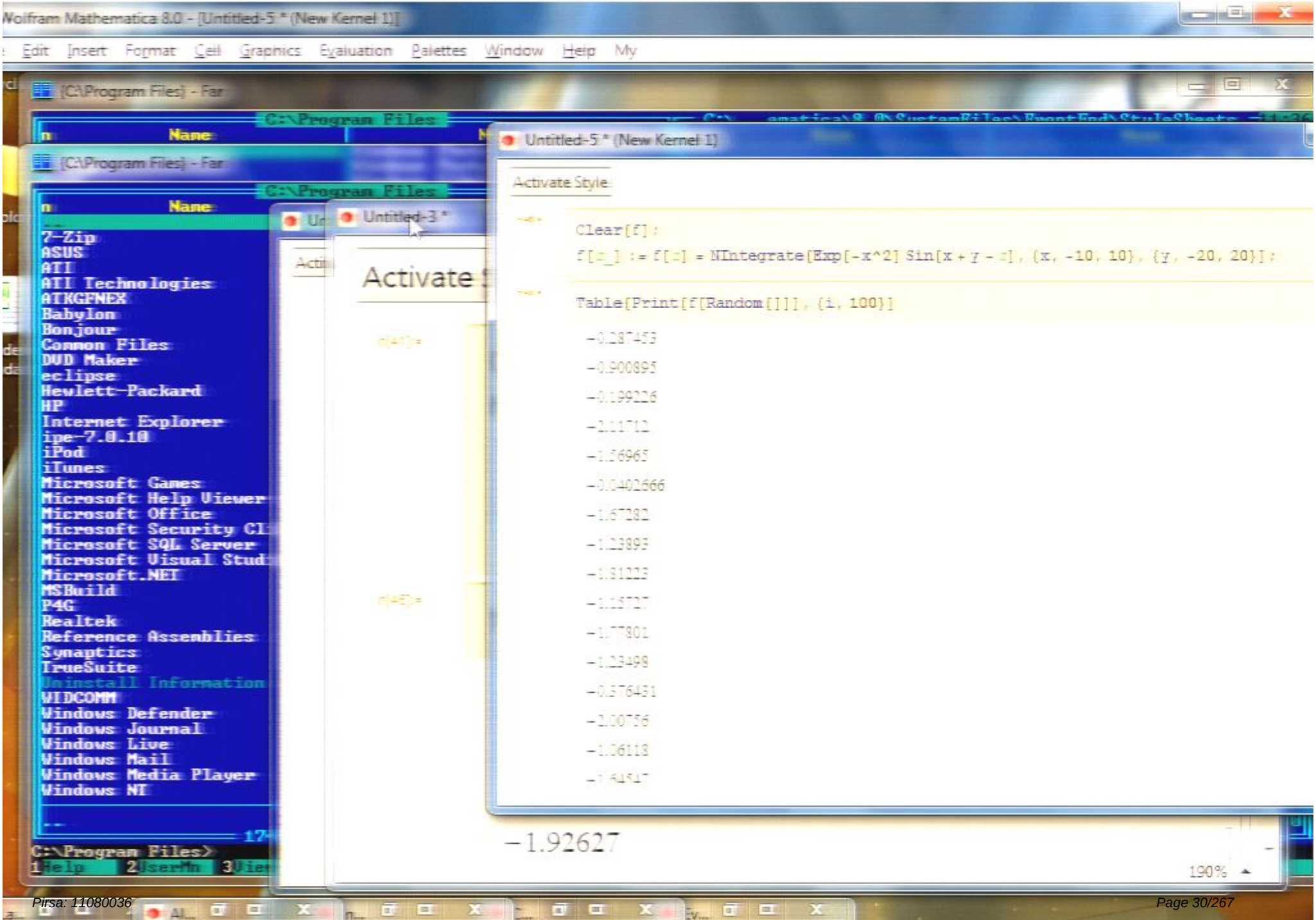
Wolfram Mathematica 8.0 - [Untitled-5 * (New Kernel 1)]
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C:\Program Files>
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Activate Style
Clear[f];
f[n_] := f[n] = NIntegrate[Exp[-x^2] Sin[x + y - n], {x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]], {i, 100}]
-0.287453
-0.900895
-0.199226
-2.11712
-1.56965
-0.04026666
-1.67282
-1.23893
-1.81223
-1.77801
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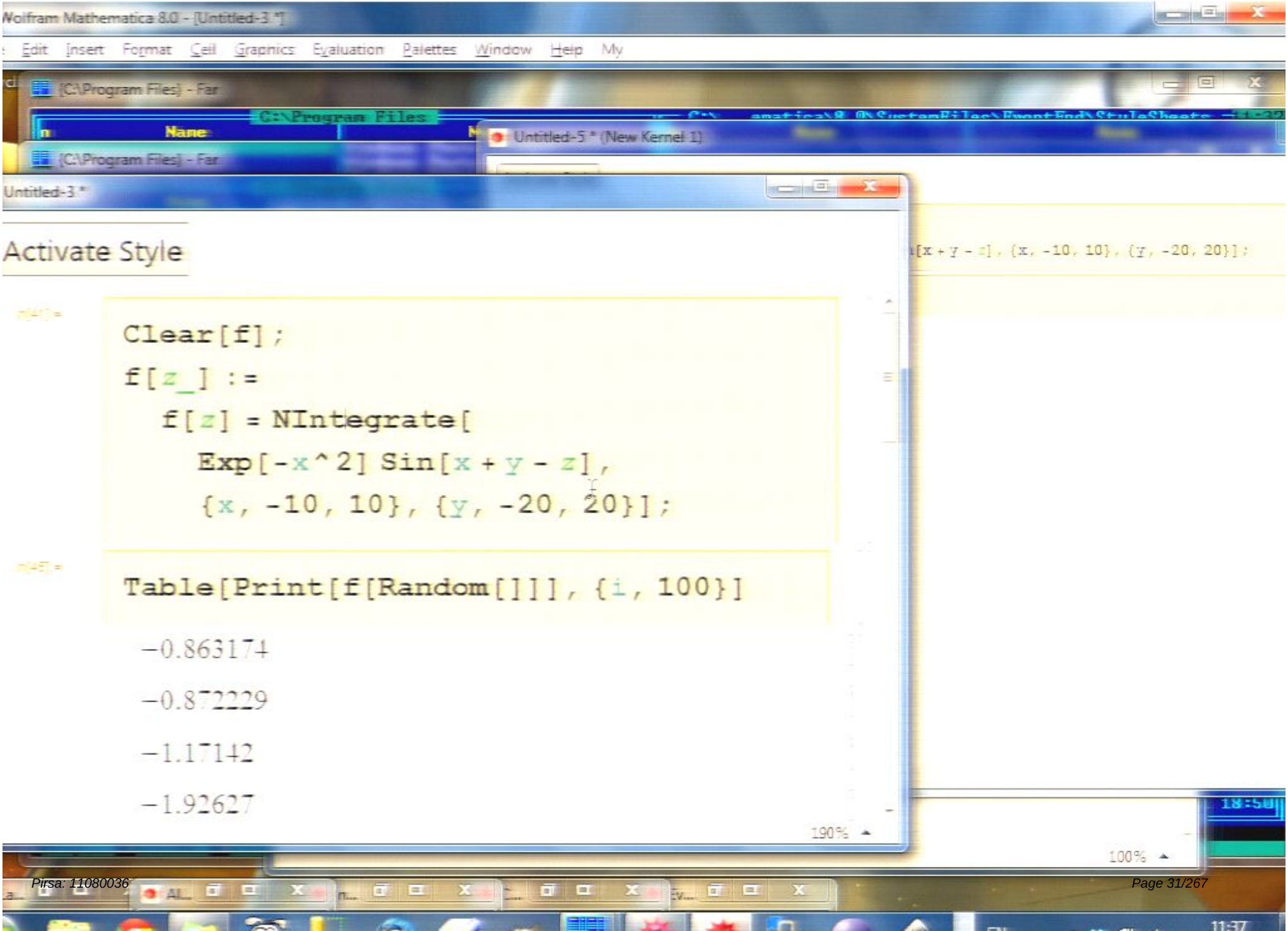
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Activate Style
Clear[f];
f[z_] :=
f[z] = NIntegrate[
Exp[-x^2] Sin[x + y - z],
{x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]], {i, 100}]
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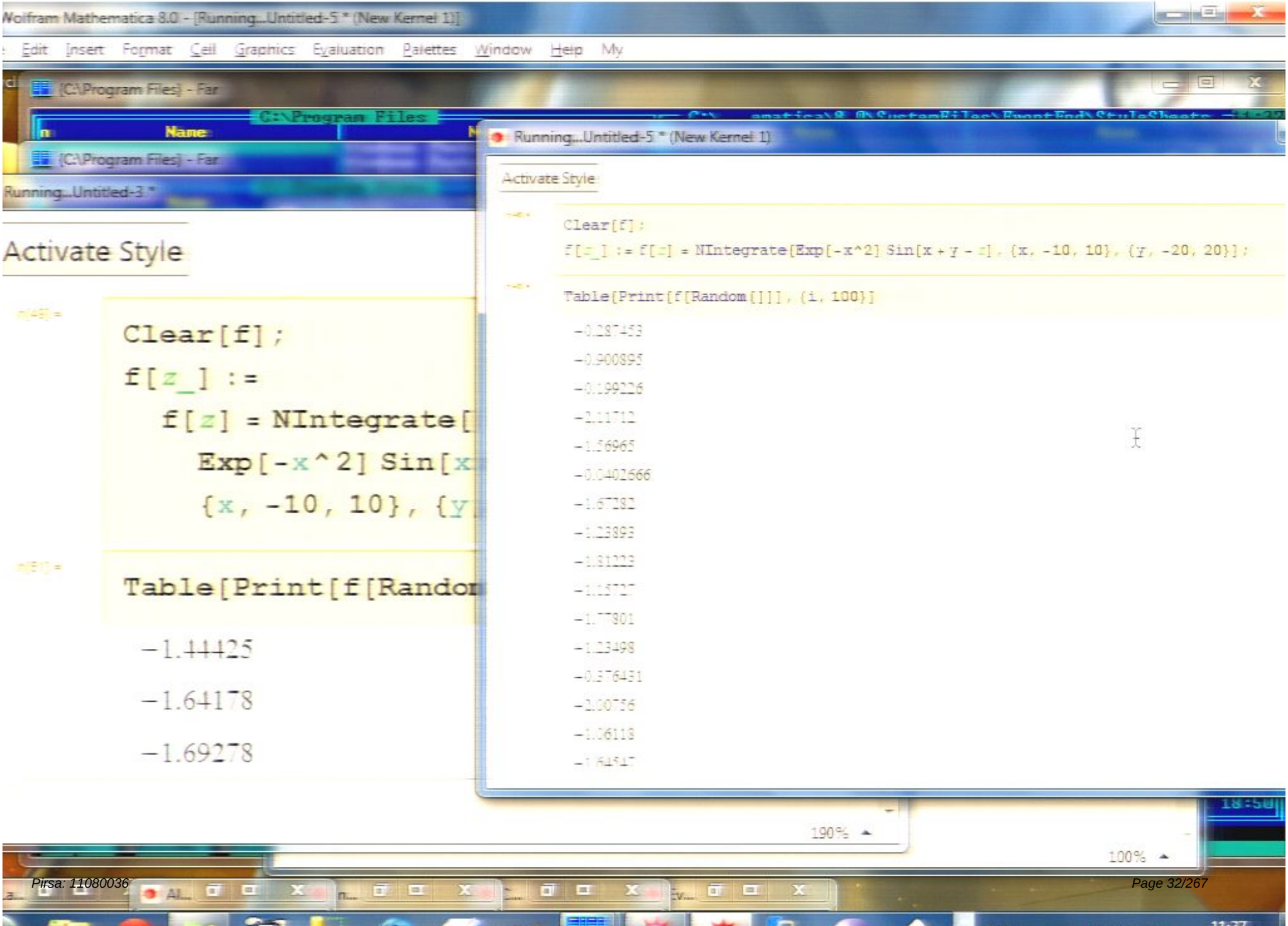
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f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]], {i, 100}]
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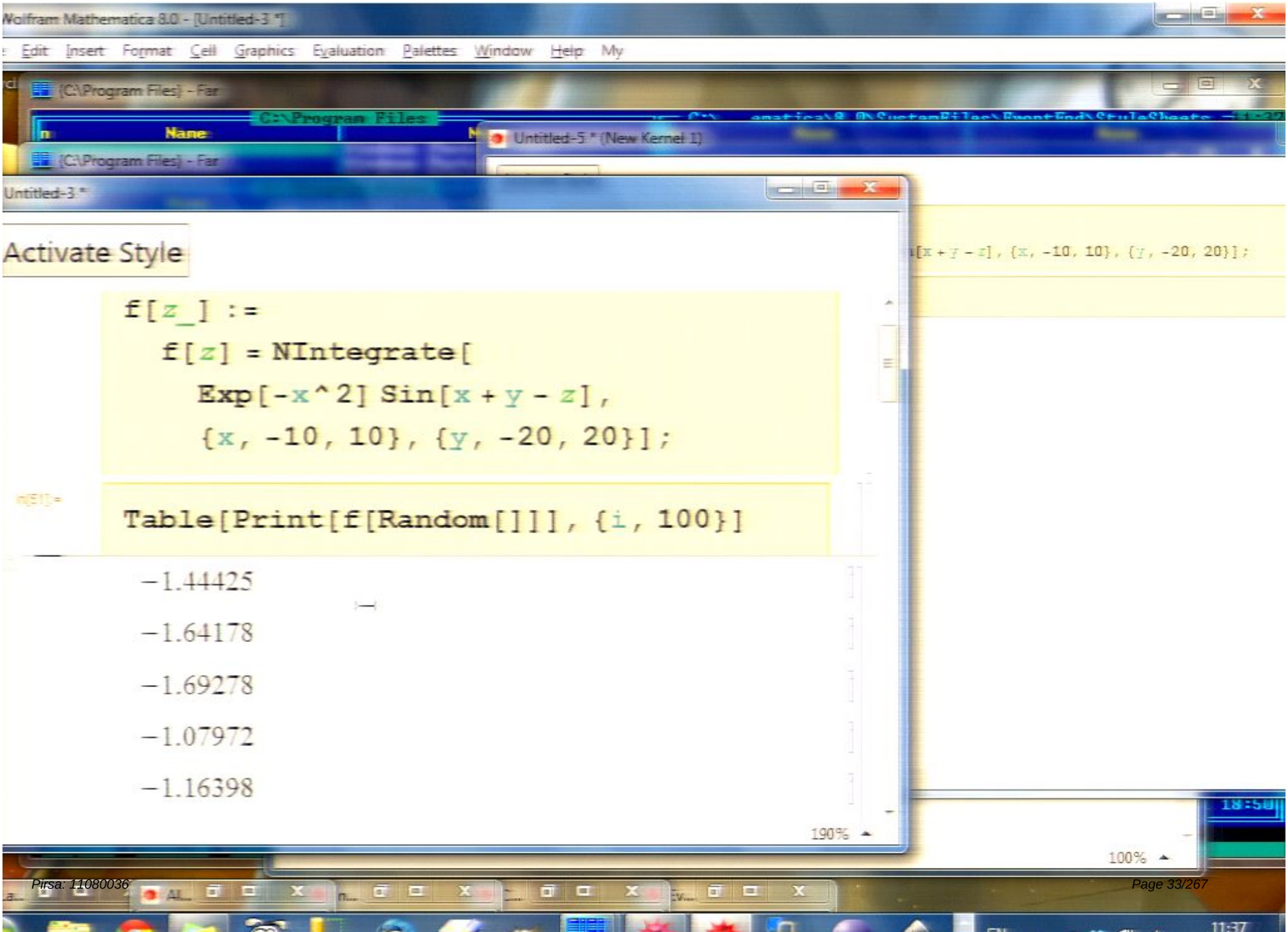
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f[z_] :=
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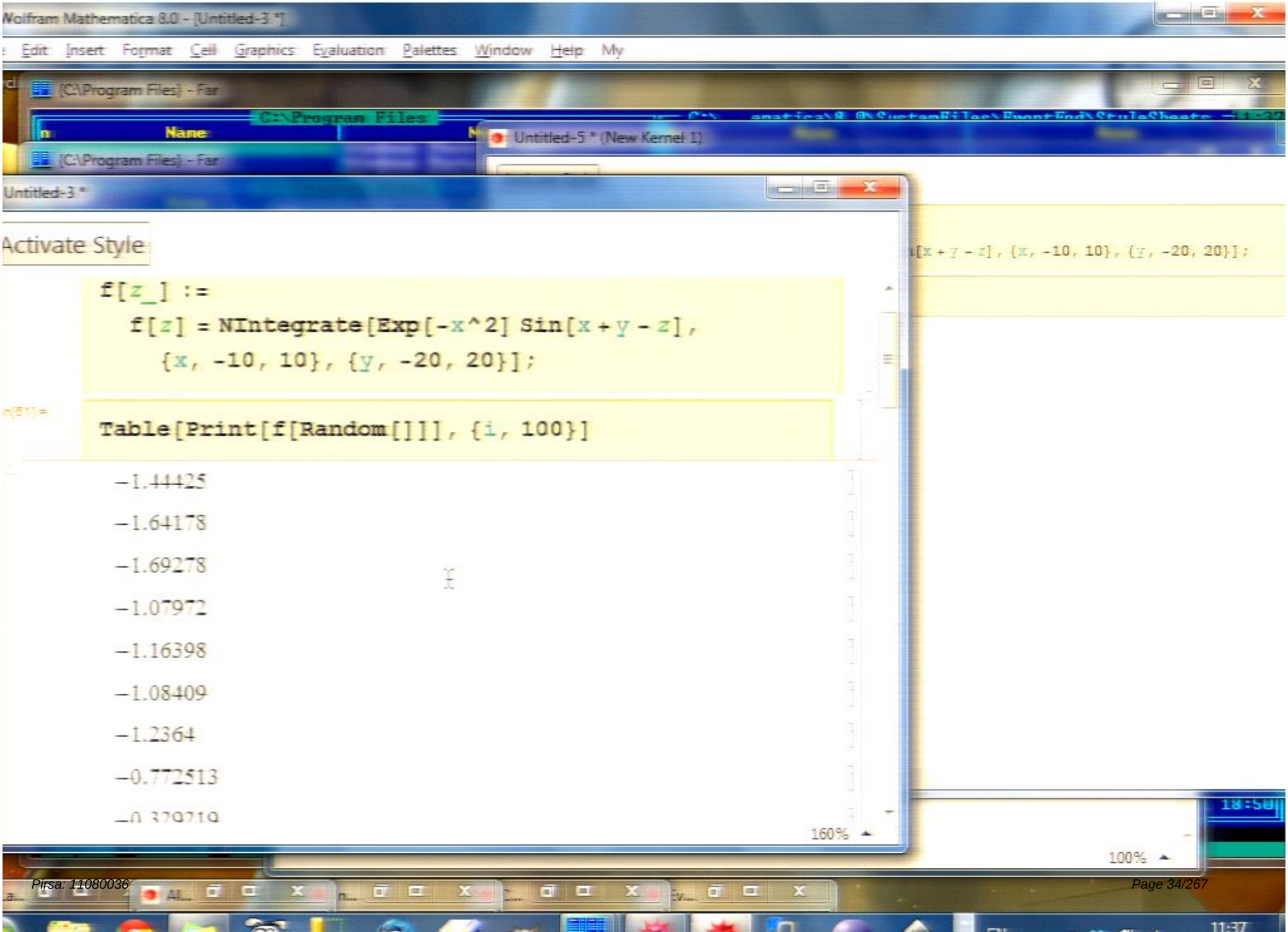
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f[z_] :=
f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z],
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Table[Print[f[Random[]]], {i, 100}]
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Table[Print[f[Random[]]], {i, 100}]
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Clear[f];
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Table[Print[f[Random[]]], {i, 100}]
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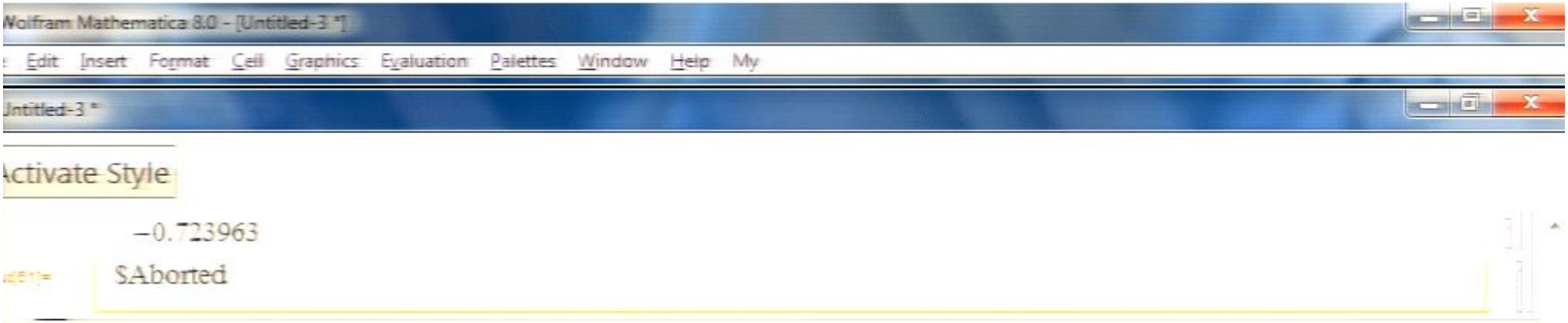
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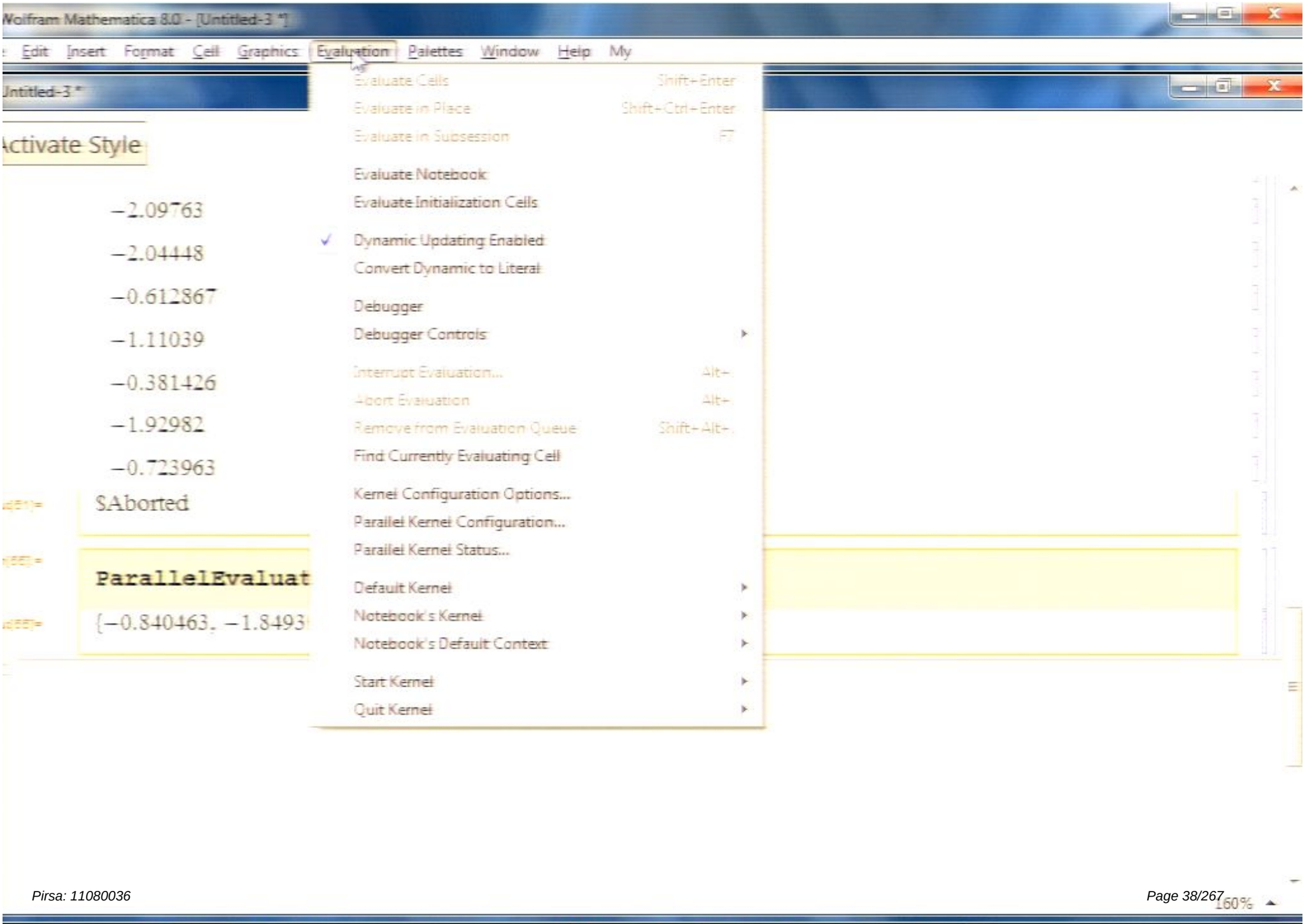
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Evaluate Notebook
Evaluate Initialization Cells
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Convert Dynamic to Literal
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Debugger Controls
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Remove from Evaluation Queue Shift+Alt+.
Find Currently Evaluating Cell
Kernel Configuration Options...
Parallel Kernel Configuration...
Parallel Kernel Status...
Default Kernel
Notebook's Kernel
Notebook's Default Context
Start Kernel
Quit Kernel

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ParallelEvaluate[f[Random[]]]
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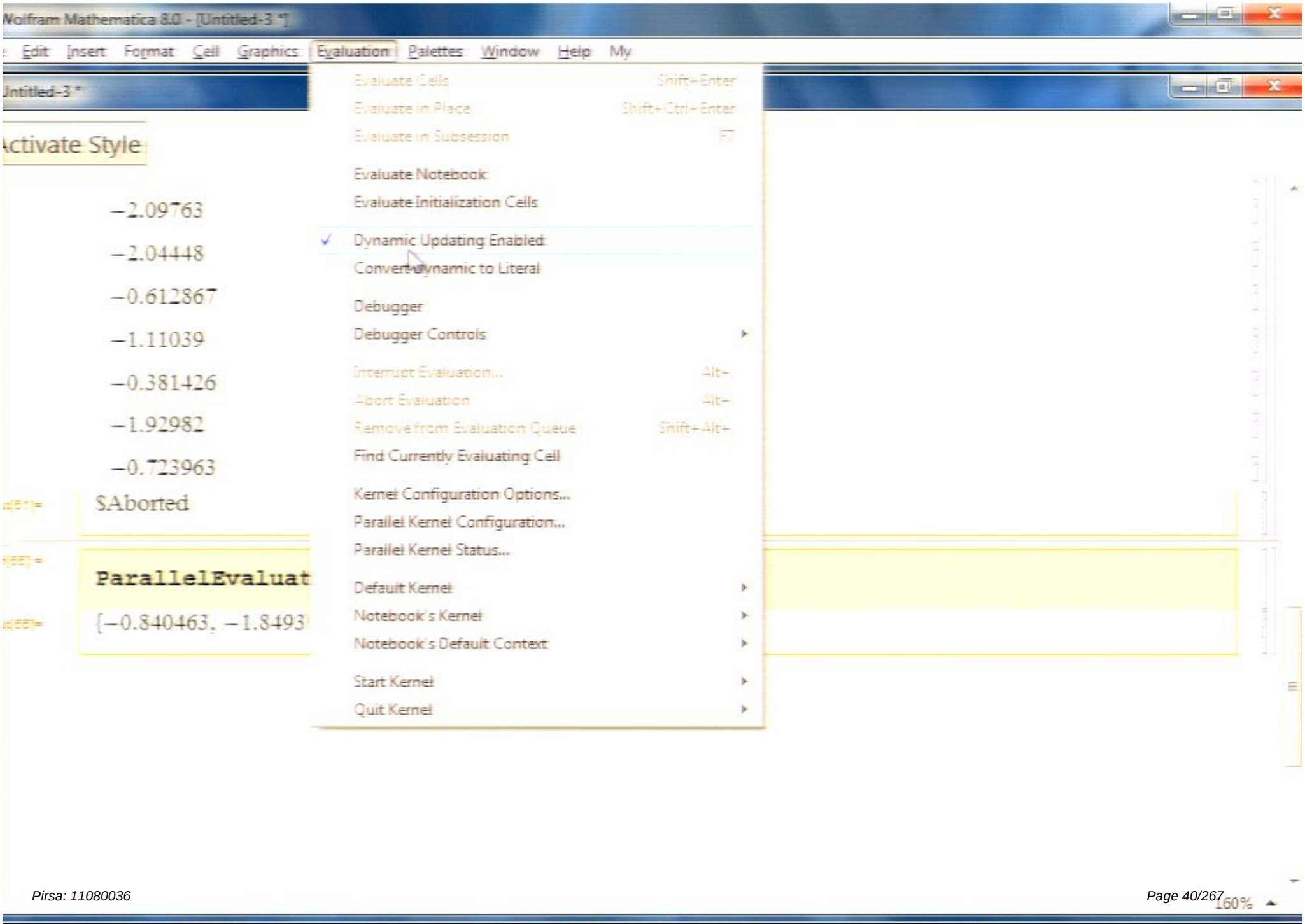
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ParallelEvaluate[f[Random[]]]
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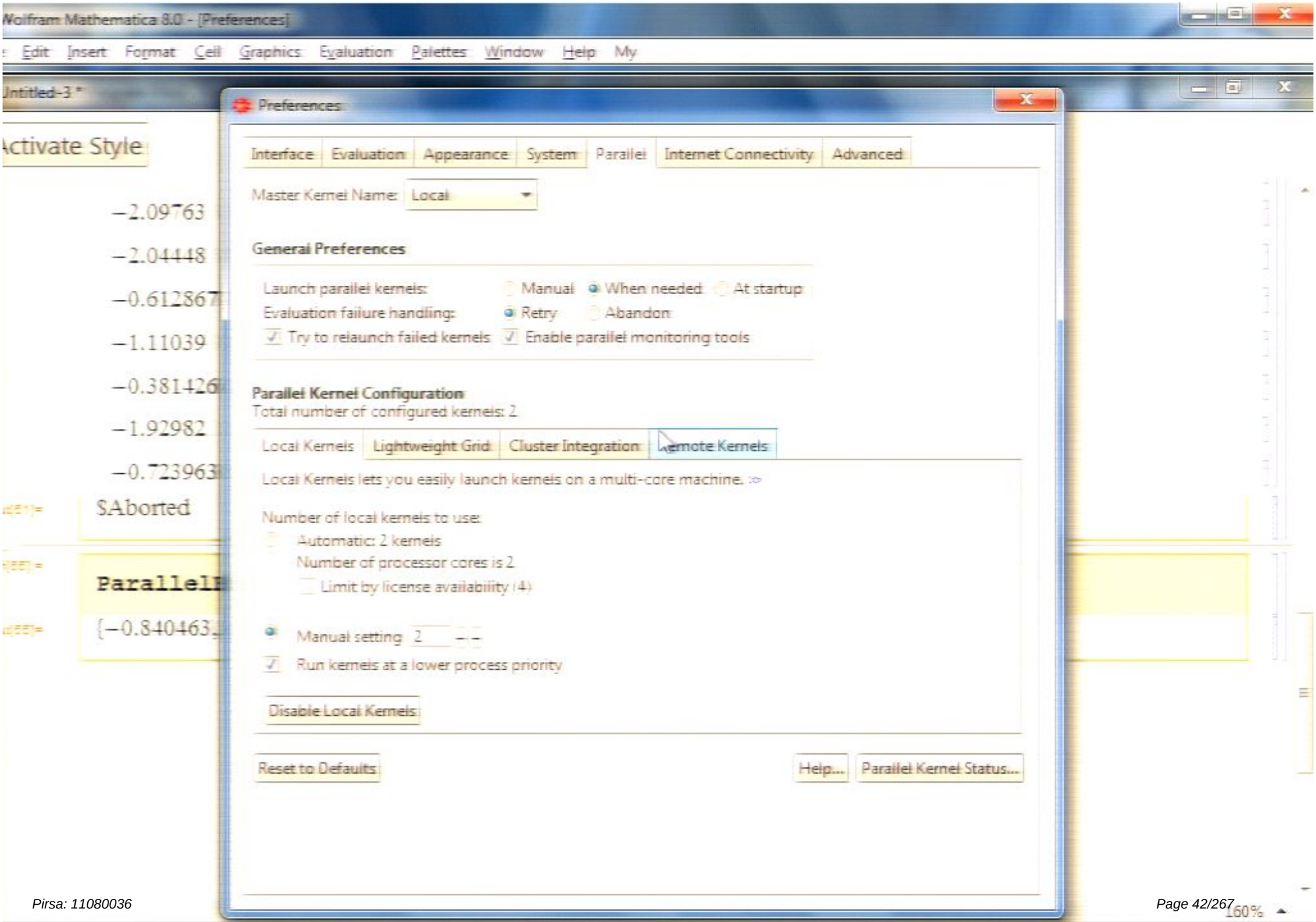
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Preferences
Interface Evaluation Appearance System Parallel Internet Connectivity Advanced
Master Kernel Name: Local
General Preferences
Launch parallel kernels: Manual When needed At startup
Evaluation failure handling: Retry Abandon
Try to relaunch failed kernels
Enable parallel monitoring tools
Parallel Kernel Configuration
Total number of configured kernels: 2
Local Kernels Lightweight Grid Cluster Integration Remote Kernels
Local Kernels lets you easily launch kernels on a multi-core machine.
Number of local kernels to use:
Automatic: 2 kernels
Number of processor cores is 2
Limit by license availability (4)
Manual setting 2
Run kernels at a lower process priority
Disable Local Kernels
Reset to Defaults
Help...
Parallel Kernel Status...
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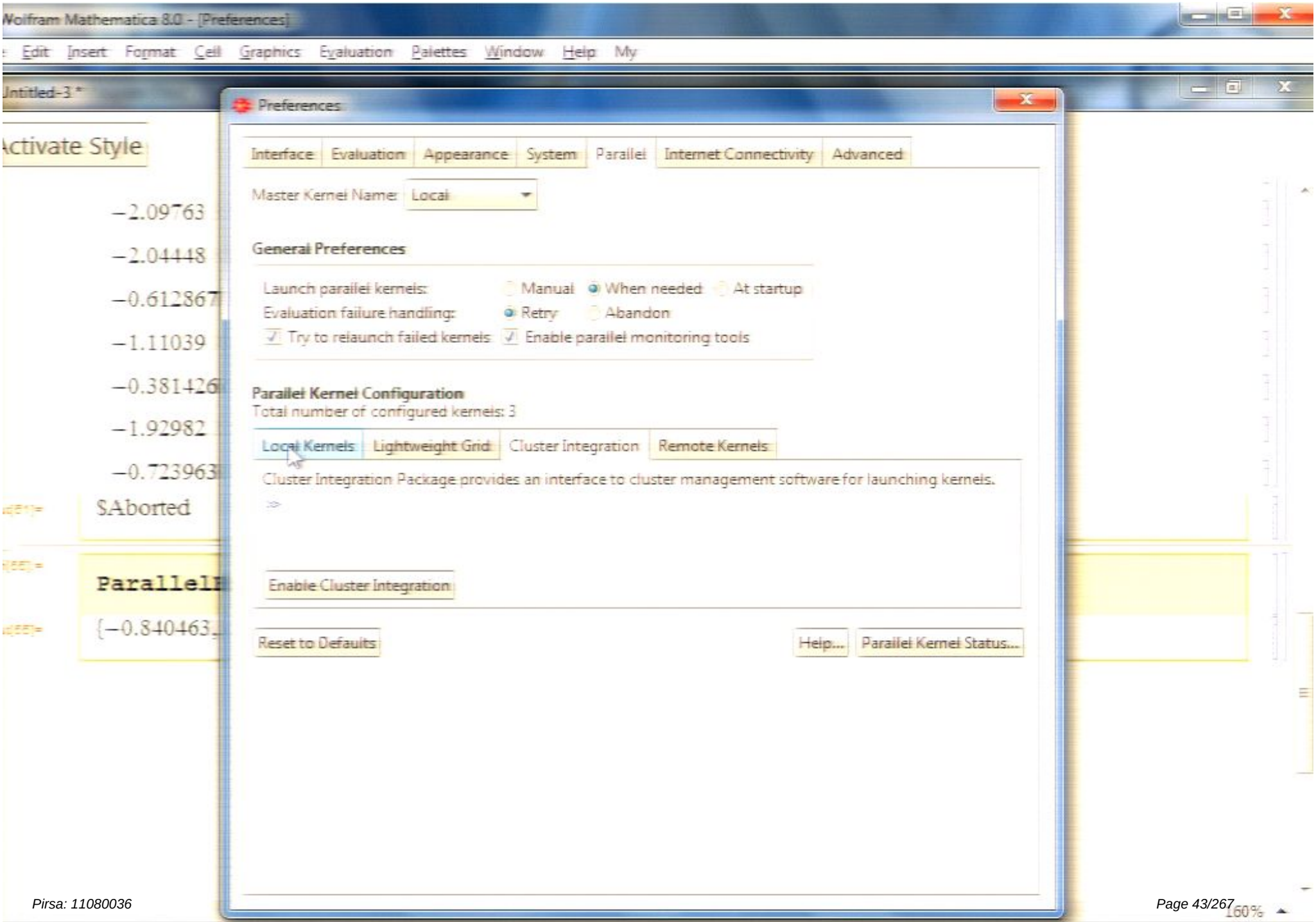
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General Preferences
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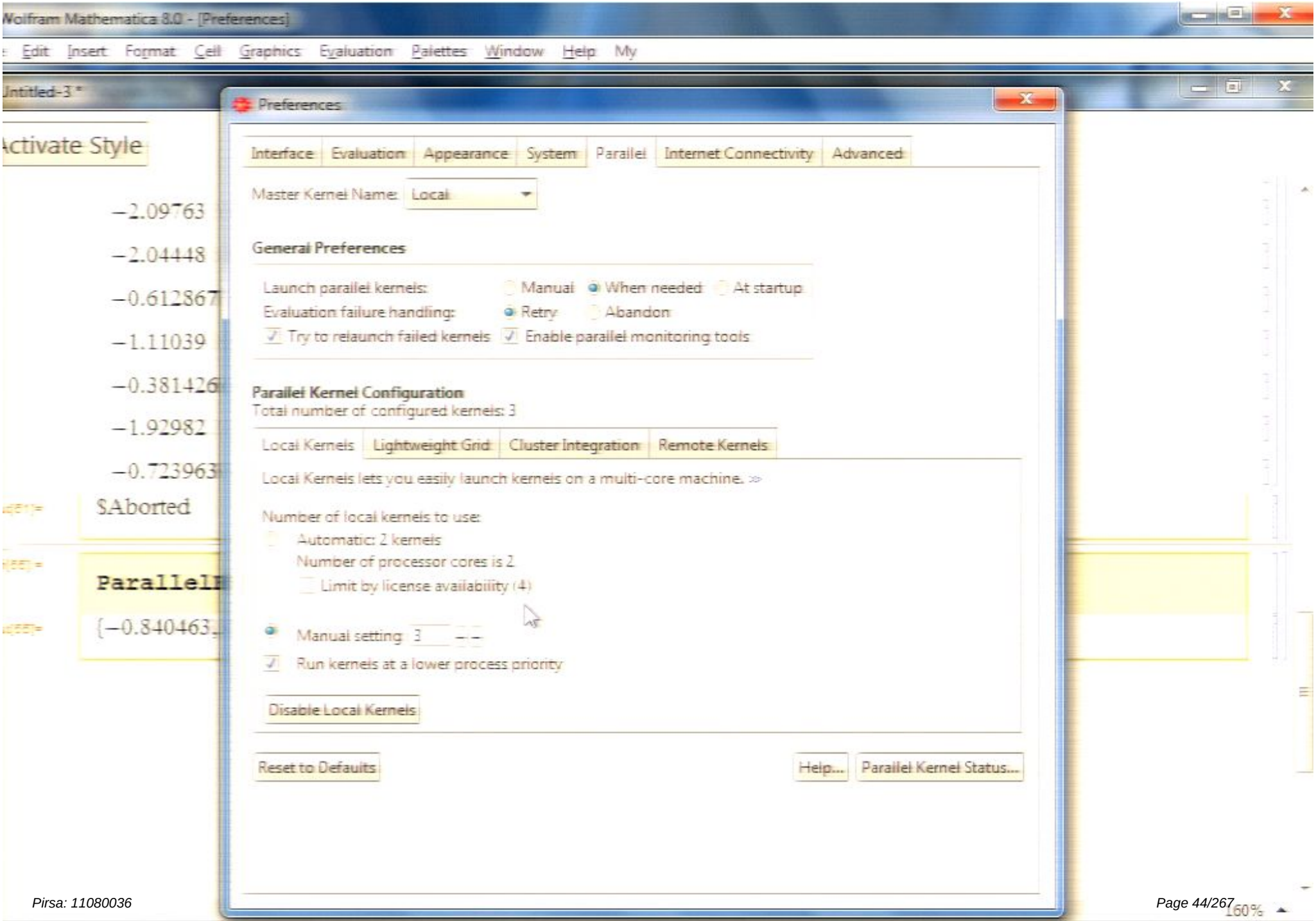
Evaluation failure handling: Retry Abandon
Try to relaunch failed kernels
Enable parallel monitoring tools
Parallel Kernel Configuration
Total number of configured kernels: 3
Local Kernels Lightweight Grid Cluster Integration Remote Kernels
Cluster Integration Package provides an interface to cluster management software for launching kernels.
Enable Cluster Integration
Reset to Defaults
Help...
Parallel Kernel Status...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Try to relaunch failed kernels
Enable parallel monitoring tools
Parallel Kernel Configuration
Total number of configured kernels: 3
Local Kernels Lightweight Grid Cluster Integration Remote Kernels
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Number of local kernels to use:
Automatic: 2 kernels
Number of processor cores is 2
Limit by license availability (4)
Manual setting: 3
Run kernels at a lower process priority
Disable Local Kernels
Reset to Defaults
Help...
Parallel Kernel Status...
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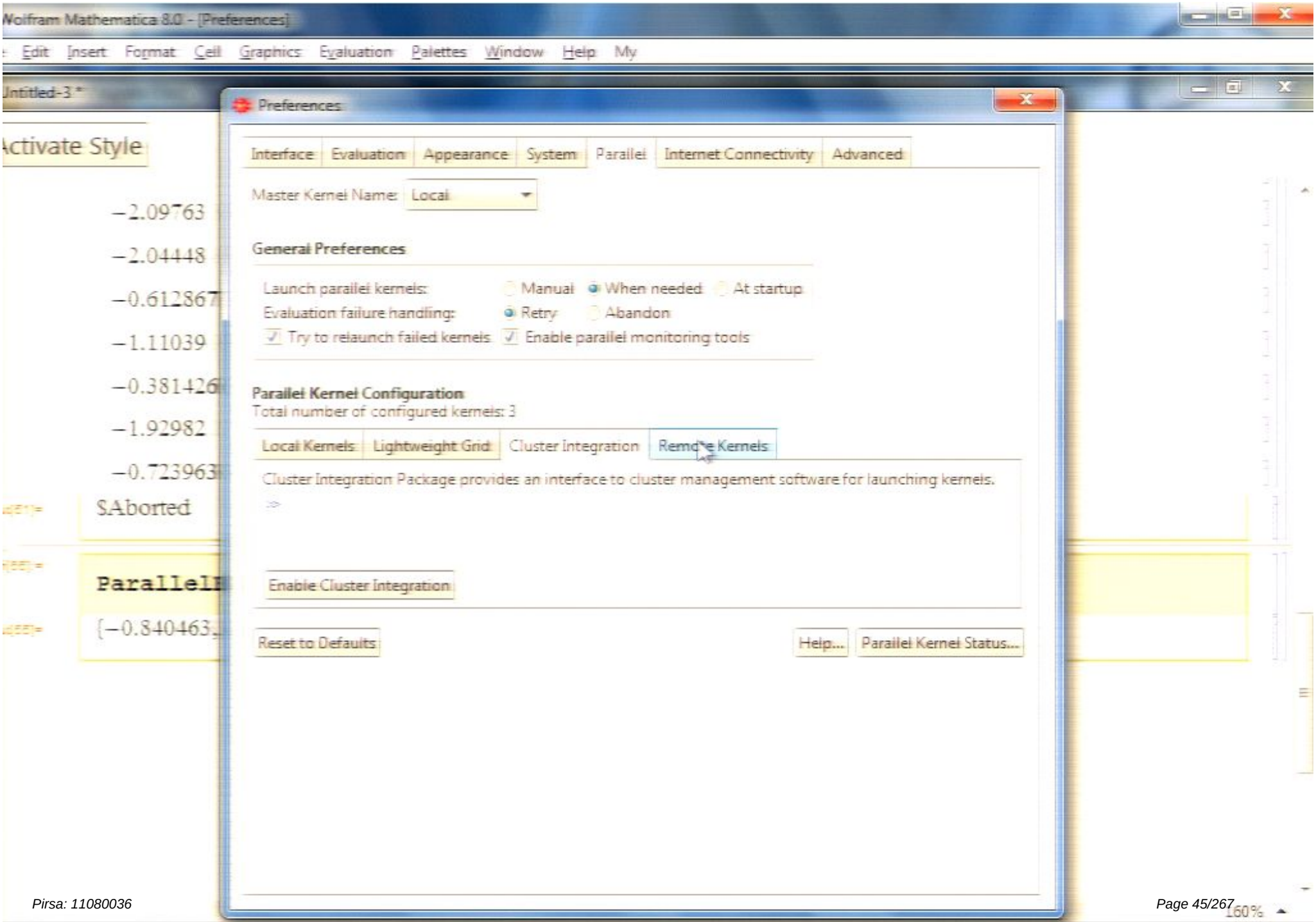
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Master Kernel Name: Local
General Preferences
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Evaluation failure handling: Retry Abandon
Try to relaunch failed kernels Enable parallel monitoring tools
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Enable Cluster Integration
Reset to Defaults
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Parallel Kernel Status...
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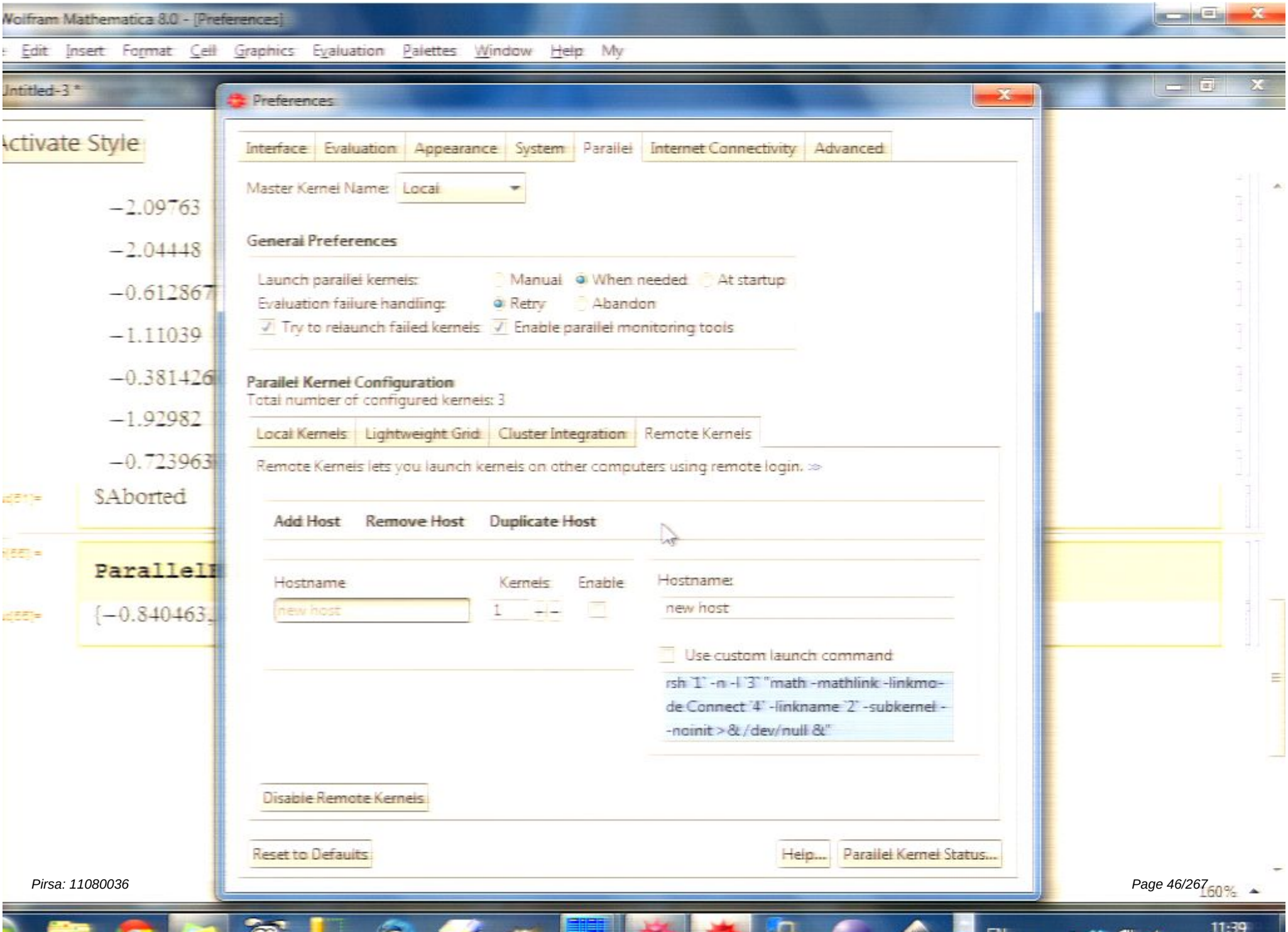
Wolfram Mathematica 8.0 - [Preferences]
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Interface Evaluation Appearance System Parallel Internet Connectivity Advanced
Master Kernel Name: Local
General Preferences
Launch parallel kernels: Manual When needed At startup
Evaluation failure handling: Retry Abandon
Try to relaunch failed kernels Enable parallel monitoring tools
Parallel Kernel Configuration
Total number of configured kernels: 3
Local Kernels Lightweight Grid Cluster Integration Remote Kernels
Remote Kernels lets you launch kernels on other computers using remote login. »
Add Host Remove Host Duplicate Host
Hostname Kernels Enable
new host 1
Hostname:
new host
Use custom launch command
rsh `1` -n -l `3` "math -mathlink -linkmode Connect `4` -linkname `2` -subkernel --noinit > & /dev/null &"
Disable Remote Kernels
Reset to Defaults
Help... Parallel Kernel Status...

Wolfram Mathematica 8.0 - [Untitled-3 *]

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```
ParallelEvaluate[f[Random[]]]
```

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

```
Table[Print[f[Random[]]], {i, 100}]
```

−1.44425

−1.64178

−1.69278

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
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?f
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```
Global`f

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]
```

```
ParallelEvaluate[f[Random[]]]
```

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{-0.840463, -1.84939}
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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Untitled-3 *

Activate Style

```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

```
? f
```

```
Global`f

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]
```

```
f[1]
```

```
-2.12088
```

```
ParallelEvaluate[f[Random[]]]
```

```
{-0.840463, -1.84939}
```


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Wolfram Mathematica 8.0 - [Untitled-3 *]

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```
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]
```

```
f[1]
```

-2.12088

```
Definition[f]
```

$f(1) = -2.12088$

$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x + y - z), \{x, -10, 10\}, \{y, -20, 20\}\right]$

```
ParallelEvaluate[Definition[f]]
```

$\{-0.840463, -1.84939\}$

```
ParallelTable[(Print[i]; f[i]), {i, 10}]
```

$\{-2.12088, -2.29183, -0.355684, 1.90747, 2.41691, 0.704249, -1.65589, -2.49362, -1.03872, 1.37117\}$

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

```
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x - y - z], {x, -10, 10}, {y, -20, 20}]
```

```
f[1]
```

```
-2.12088
```

```
ParallelTable[(Print[i]; f[i]), {i, 10}]
```

```
{-2.12088, -2.29183, -0.355684, 1.90747, 2.41691, 0.704249, -1.65589, -2.49362, -1.03872, 1.37117}
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Wolfram Mathematica 8.0 - [Untitled-3 *]

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```

```
ParallelTable[(Print[i]; f[i]), {i, 10}]
```

```
1
4
2
5
3
6
7
9
```


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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

```
ParallelTable[(Print[Definition[f]]; f[i]), {i, 10}]
```

$f(1) = -2.12088$

$f(2) = -2.29183$

$f(3) = -0.355684$

$f(9) = -1.03872$

$f(10) = 1.37117$

$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x + y - z), \{x, -10, 10\}, \{y, -20, 20\}\right]$

$f(4) = 1.90747$

$f(5) = 2.41691$

$f(6) = 0.704249$

$f(7) = -1.65589$

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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$f(7) = -1.65589$

$f(8) = -2.49362$

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

$$f(7) = -1.65589$$

$$f(8) = -2.49362$$

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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ParallelTable[(Print[Definition[f]]; f[i]), {i, 10}]
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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

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Clear[f];
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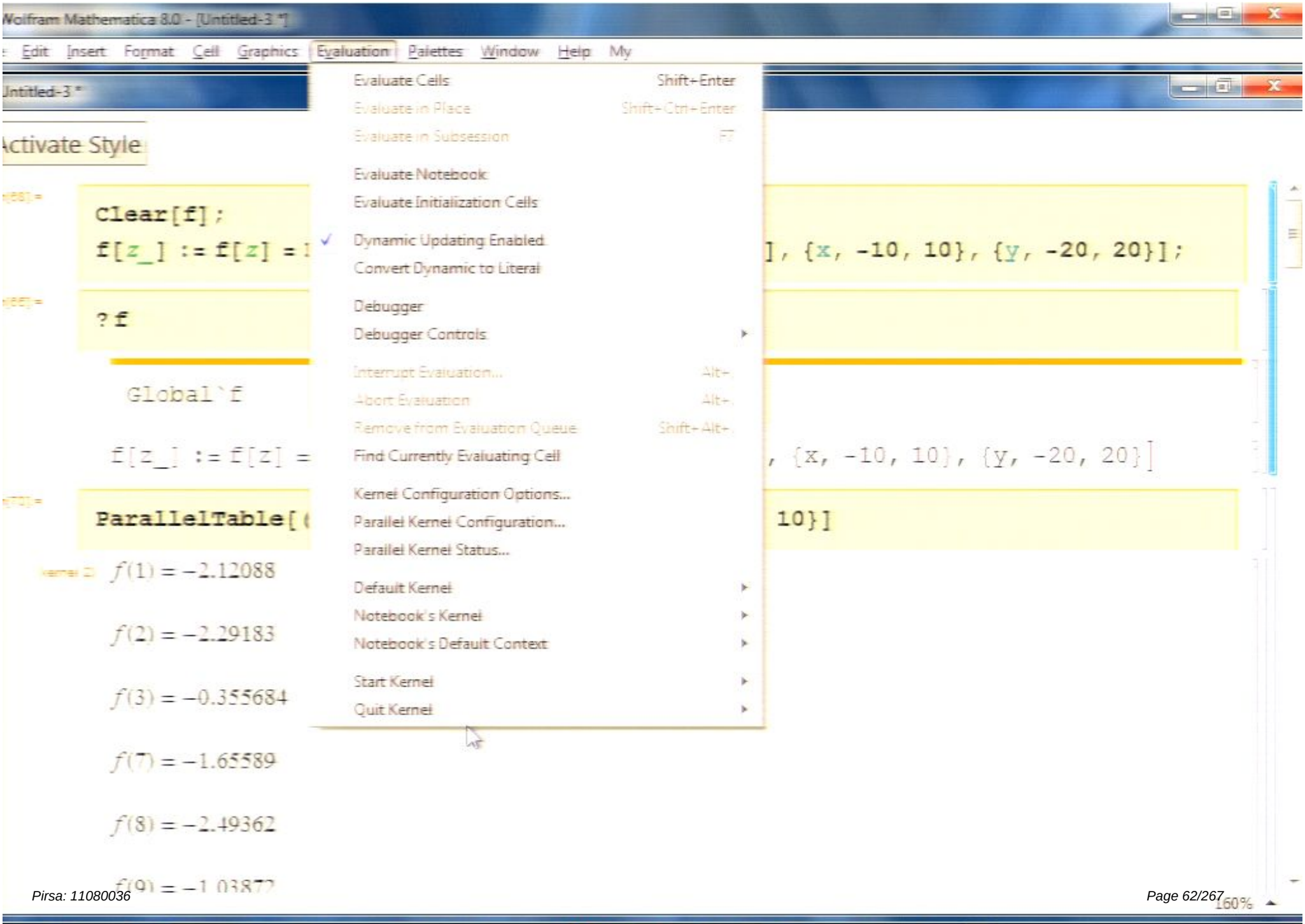
Wolfram Mathematica 8.0 - [Untitled-3 *]
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Untitled-3 *
Activate Style
Clear[f];
f[z_] := f[z] =
], {x, -10, 10}, {y, -20, 20}];
? f
Global`f
f[z_] := f[z] =
, {x, -10, 10}, {y, -20, 20}]
ParallelTable[
10}]
f(1) = −2.12088
f(2) = −2.29183
f(3) = −0.355684
f(7) = −1.65589
f(8) = −2.49362
Evaluate Cells Shift+Enter
Evaluate in Place Shift+Ctrl+Enter
Evaluate in Subsession F7
Evaluate Notebook
Evaluate Initialization Cells
Dynamic Updating Enabled
Convert Dynamic to Literal
Debugger
Debugger Controls
Interrupt Evaluation... Alt+.
Abort Evaluation Alt+,
Remove from Evaluation Queue Shift+Alt+.
Find Currently Evaluating Cell
Kernel Configuration Options...
Parallel Kernel Configuration...
Parallel Kernel Status...
Default Kernel
Notebook's Kernel
Notebook's Default Context
Start Kernel
Quit Kernel
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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

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Clear[f];
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```
?f
```

```
Global`f

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```

```
ParallelTable[(Print[Definition[f]]; f[i]), {i, 10}]
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$f(8) = -2.49362$

$f(9) = -1.03877$

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Wolfram Mathematica 8.0 - [Running...Untitled-3 *]

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Activate Style

```
In[1]:= Clear[f];
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In[3]:= ParallelTable[(Print[Definition[f]]; f[i]), {i, 10}]
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$f(4) = 1.90747$

Wolfram Mathematica 8.0 - [Running...Untitled-3 *]

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Activate Style

```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

```
ParallelTable[(Print[Definition[f]]; f[i]), {i, 10}]
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$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x + y - z), \{x, -10, 10\}, \{y, -20, 20\}\right]$

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Wolfram Mathematica 8.0 - [Running...Untitled-3 *]

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In[1]:= Clear[f];
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$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x+y-z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

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ParallelTable[(Print[Definition[f]]; f[i]), {i, 10}]
```

$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x+y-z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

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$$f(5) = 2.41691$$

$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x+y-z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

$$f(3) = -0.355684$$

$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x+y-z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

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$$f(1) = -2.12088$$

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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```

```
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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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```
ParallelTable[(Print[Definition[f]]; f[i]), {i, 10}]
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$$f(1) = -2.12088$$

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Wolfram Mathematica 8.0 - [Untitled-3 *]

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$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x+y-z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

$$f(5) = 2.41691$$

$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x+y-z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

$$f(3) = -0.355684$$

$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x+y-z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

$$f(5) = 2.41691$$

$$f(6) = 0.704249$$

$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x+y-z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

$$f(1) = -2.12088$$

$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x+y-z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

$$f(3) = -0.355684$$

160%

11:42

Wolfram Mathematica 8.0 - [Untitled-3 *]

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Untitled-3 *

Activate Style

$$f(1) = -2.12088$$

$$f(2) = -2.29183$$

$$f(z\_) := f(z) = \text{NIntegrate}\left[\exp(-x^2)\sin(x + y - z), \{x, -10, 10\}, \{y, -20, 20\}\right]$$

$$\{-2.12088, -2.29183, -0.355684, 1.90747, 2.41691, 0.704249, -1.65589, -2.49362, -1.03872, 1.37117\}$$

160%

11:43

Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

In[1]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

```
SetSharedFunction[]
```

In[3]:=
```
ParallelTable[(Print[Definition[f]]; f[i]), {i, 10}]
```

kernel 3) $f(z\_) := f(z) = \text{NIntegrate}\left[\exp\left(-x^2\right) \sin(x + y - z), \{x, -10, 10\}, \{y, -20, 20\}\right]$

kernel 2) $f(z\_) := f(z) = \text{NIntegrate}\left[\exp\left(-x^2\right) \sin(x + y - z), \{x, -10, 10\}, \{y, -20, 20\}\right]$

kernel 1) $f(z\_) := f(z) = \text{NIntegrate}\left[\exp\left(-x^2\right) \sin(x + y - z), \{x, -10, 10\}, \{y, -20, 20\}\right]$

kernel 1) $f(5) = 2.41691$

$f(z\_) := f(z) = \text{NIntegrate}\left[\exp\left(-x^2\right) \sin(x + y - z), \{x, -10, 10\}, \{y, -20, 20\}\right]$

kernel 2) $f(3) = -0.355684$

$f(z\_) := f(z) = \text{NIntegrate}\left[\exp\left(-x^2\right) \sin(x + y - z), \{x, -10, 10\}, \{y, -20, 20\}\right]$

kernel 1) $f(5) = 2.41691$

$f(6) = 0.704249$

160%

11:43

Wolfram Mathematica 8.0 - [Untitled-3 *]

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```
In[6]:= Clear[f];
        f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];

In[7]:= SetSharedFunction[f];

In[8]:= ParallelTable[(f[i]), {i, 10}]

Out[8]= {-2.12088, -2.29183, -0.355684, 1.90747, 2.41691, 0.704249, -1.65589, -2.49362, -1.03872, 1.37117}
```


160%

11:43

Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

```
f[1] = -2.12088

f[2] = -2.29183

f[3] = -0.355684

f[4] = 1.90747

f[5] = 2.41691

f[6] = 0.704249

f[7] = -1.65589

f[8] = -2.49362

f[9] = -1.03872

f[10] = 1.37117

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]
```

Wolfram Mathematica 8.0 - [Untitled-3 *]

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Untitled-3 *

Activate Style

```
 Global`f

f[1] = -2.12088

f[2] = -2.29183

f[3] = -0.355684

f[4] = 1.90747

f[5] = 2.41691

f[6] = 0.704249

f[7] = -1.65589

f[8] = -2.49362

f[9] = -1.03872

f[10] = 1.37117

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]
```


160%

Wolfram Mathematica 8.0 - [Untitled-3 *]

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Activate Style

```
f[3] = -0.355684

f[4] = 1.90747

f[5] = 2.41691

f[6] = 0.704249

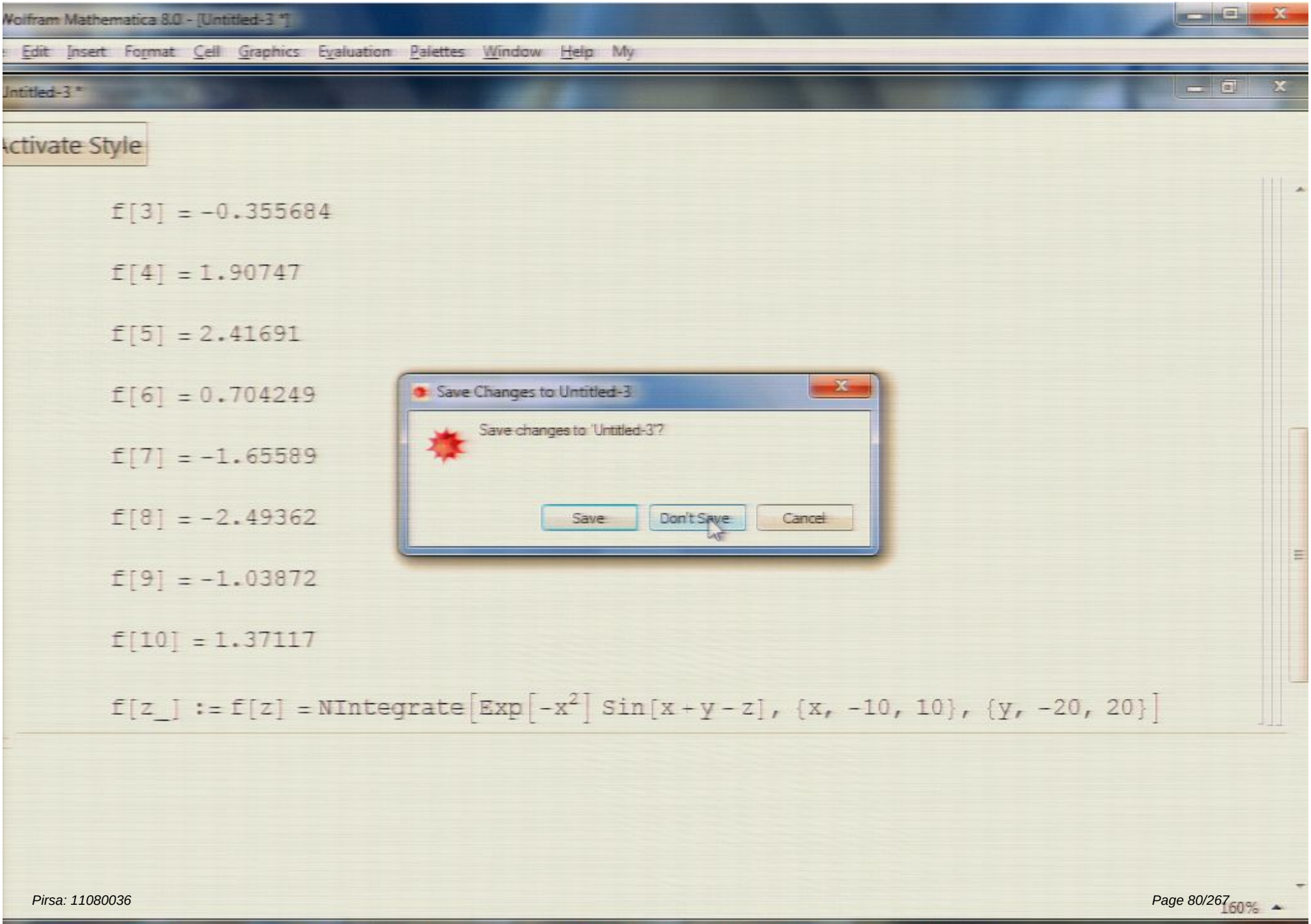
f[7] = -1.65589

f[8] = -2.49362

f[9] = -1.03872

f[10] = 1.37117

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]
```


Wolfram Mathematica 8.0 - [Untitled-3 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-3 *
Activate Style
f[3] = -0.355684
f[4] = 1.90747
f[5] = 2.41691
f[6] = 0.704249
f[7] = -1.65589
f[8] = -2.49362
f[9] = -1.03872
f[10] = 1.37117
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]
Save Changes to Untitled-3
Save changes to 'Untitled-3'?
Save
Don't Save
Cancel
160%

Wolfram Mathematica 8.0 - [Untitled-3 *]

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Untitled-3 *

Activate Style

```
f[3] = -0.355684

f[4] = 1.90747

f[5] = 2.41691

f[6] = 0.704249

f[7] = -1.65589

f[8] = -2.49362

f[9] = -1.03872

f[10] = 1.37117

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]
```

Wolfram Mathematica 8.0 - [Untitled-3 *]

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Untitled-3 *

Activate Style

```
In[6]:= Clear[f];
        f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];

In[7]:= SetSharedFunction[f];

In[8]:= ParallelTable[(f[i]), {i, 10}]

Out[8]= {-2.12088, -2.29183, -0.355684, 1.90747, 2.41691, 0.704249, -1.65589, -2.49362, -1.03872, 1.37117}

In[9]:= ?f

        Global`f

        f[1] = -2.12088

        f[2] = -2.29183

        f[3] = -0.355684

        f[4] = 1.90747

        f[5] = 2.41691
```

Wolfram Mathematica 8.0 - [Running...Untitled-3 *]

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Activate Style

```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
```

```
SetSharedFunction[f];
```

```
ParallelTable[(f[i]), {i, 100}]
```

{−2.12088, −2.29183, −0.355684, 1.90747, 2.41691, 0.704249, −1.65589, −2.49362, −1.03872, 1.37117}

```
?f
```

```
Global`f

f[1] = -2.12088

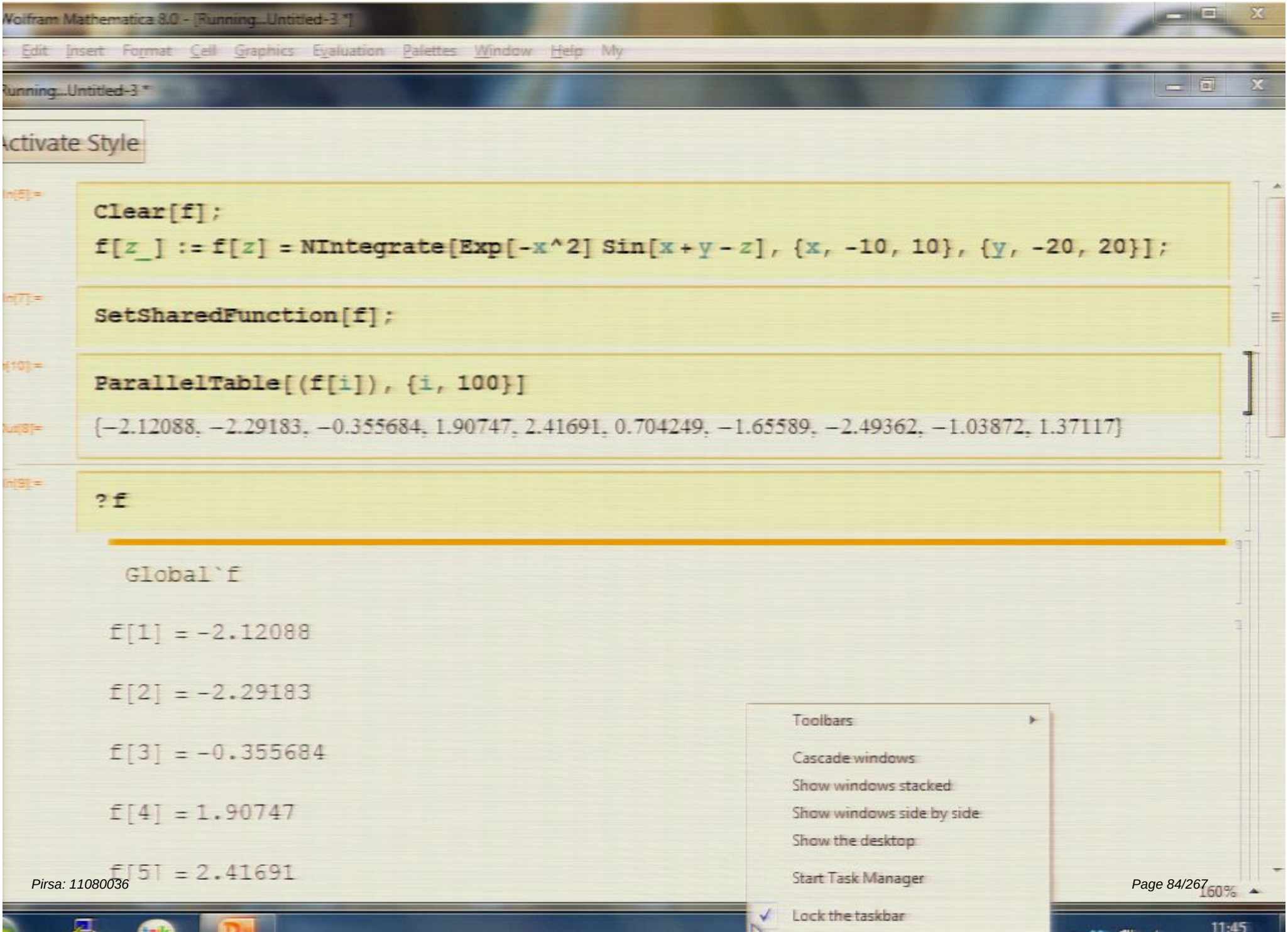
f[2] = -2.29183

f[3] = -0.355684

f[4] = 1.90747

f[5] = 2.41691
```

Restore the Language bar
Additional icons in taskbar
Adjust the Language band position
Auto Adjust
Settings...


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
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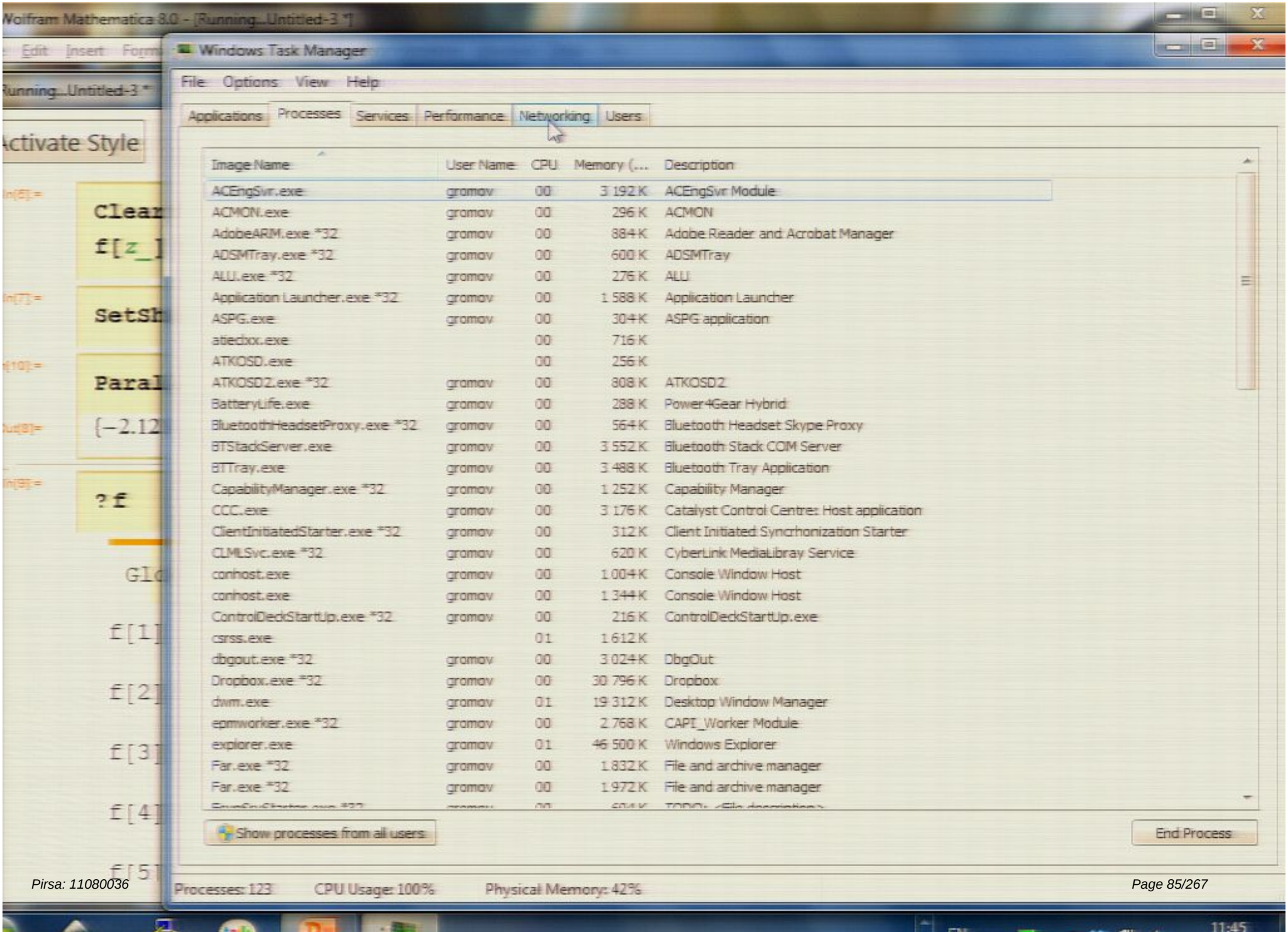
Running...Untitled-3 *
Activate Style
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
SetSharedFunction[f];
ParallelTable[(f[i]), {i, 100}]
{−2.12088, −2.29183, −0.355684, 1.90747, 2.41691, 0.704249, −1.65589, −2.49362, −1.03872, 1.37117}
?f
Global`f
f[1] = -2.12088
f[2] = -2.29183
f[3] = -0.355684
f[4] = 1.90747
f[5] = 2.41691
Toolbars
Cascade windows
Show windows stacked
Show windows side by side
Show the desktop
Start Task Manager
Lock the taskbar
160%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
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Running...Untitled-3 *
Activate Style
Clear
f[z_]
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Paral
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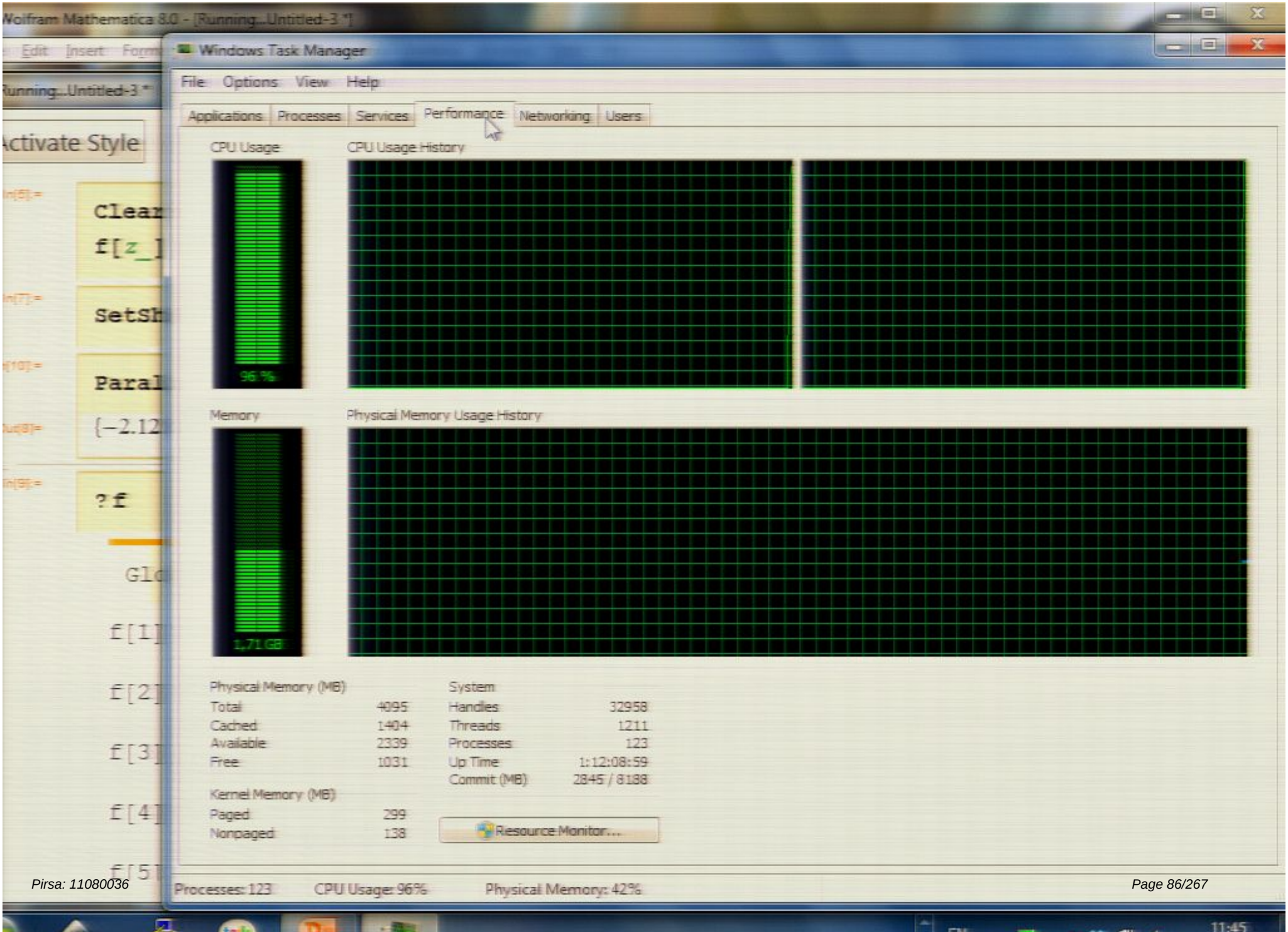
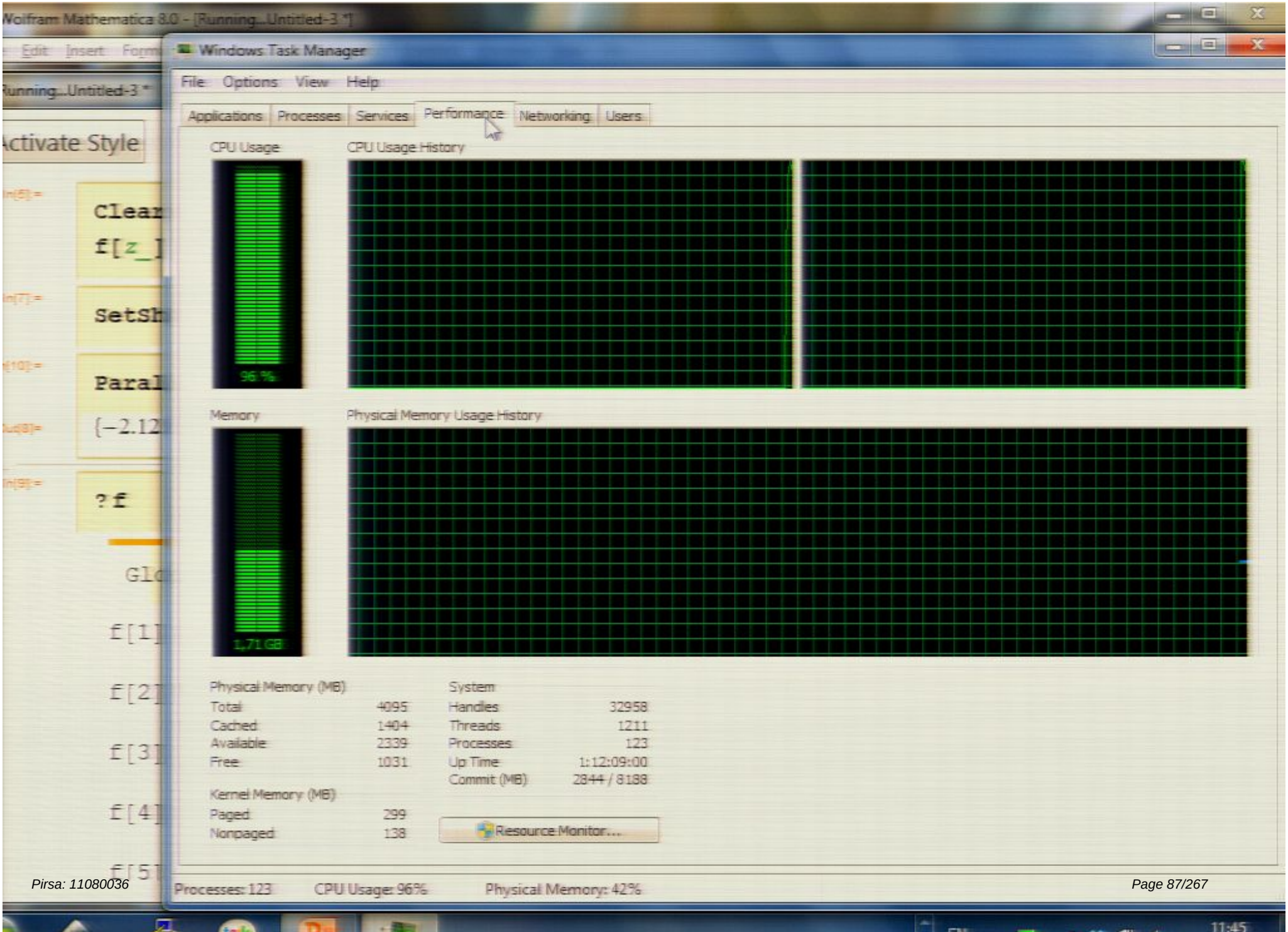
?f
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
Image Name User Name CPU Memory (... Description
ACEngSvr.exe gramov 00 3 192 K ACEngSvr Module
ACMON.exe gramov 00 296 K ACMON
AdobeARM.exe *32 gramov 00 884 K Adobe Reader and Acrobat Manager
ADSMTray.exe *32 gramov 00 600 K ADSMTray
ALU.exe *32 gramov 00 276 K ALU
Application Launcher.exe *32 gramov 00 1 588 K Application Launcher
ASPG.exe gramov 00 304 K ASPG application
atiedxx.exe 00 716 K
ATKOSD.exe 00 256 K
ATKOSD2.exe *32 gramov 00 808 K ATKOSD2
BatteryLife.exe gramov 00 288 K Power4Gear Hybrid
BluetoothHeadsetProxy.exe *32 gramov 00 564 K Bluetooth Headset Skype Proxy
BTStackServer.exe gramov 00 3 552 K Bluetooth Stack COM Server
BTTray.exe gramov 00 3 488 K Bluetooth Tray Application
CapabilityManager.exe *32 gramov 00 1 252 K Capability Manager
CCC.exe gramov 00 3 176 K Catalyst Control Centre: Host application
ClientInitiatedStarter.exe *32 gramov 00 312 K Client Initiated Synchronization Starter
CLMLSvc.exe *32 gramov 00 620 K CyberLink MediaLibray Service
conhost.exe gramov 00 1 004 K Console Window Host
conhost.exe gramov 00 1 344 K Console Window Host
ControlDeckStartUp.exe *32 gramov 00 216 K ControlDeckStartUp.exe
csrss.exe 01 1 612 K
dbgout.exe *32 gramov 00 3 024 K DbgOut
Dropbox.exe *32 gramov 00 30 796 K Dropbox
dwm.exe gramov 01 19 312 K Desktop Window Manager
epmworker.exe *32 gramov 00 2 768 K CAPI_Worker Module
explorer.exe gramov 01 46 500 K Windows Explorer
Far.exe *32 gramov 00 1 832 K File and archive manager
Far.exe *32 gramov 00 1 972 K File and archive manager
Show processes from all users
End Process
Processes: 123 CPU Usage: 100% Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
CPU Usage History
96 %
Memory
Physical Memory Usage History
1,71 GB
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1031
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32958
Threads 1211
Processes 123
Up Time 1:12:08:59
Commit (MB) 2845 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 96%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
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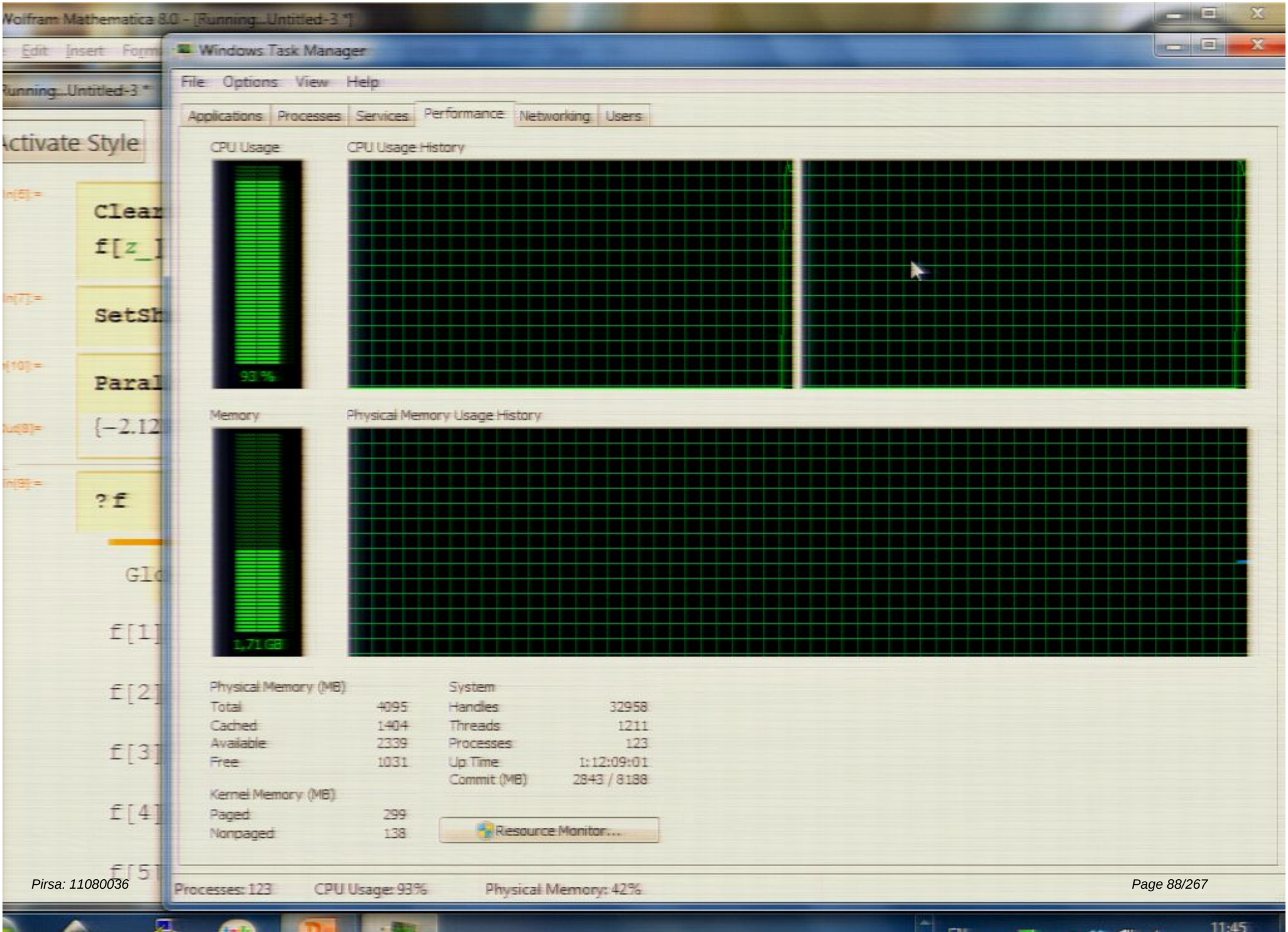
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
96 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1031
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32958
Threads 1211
Processes 123
Up Time 1:12:09:00
Commit (MB) 2844 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 96%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
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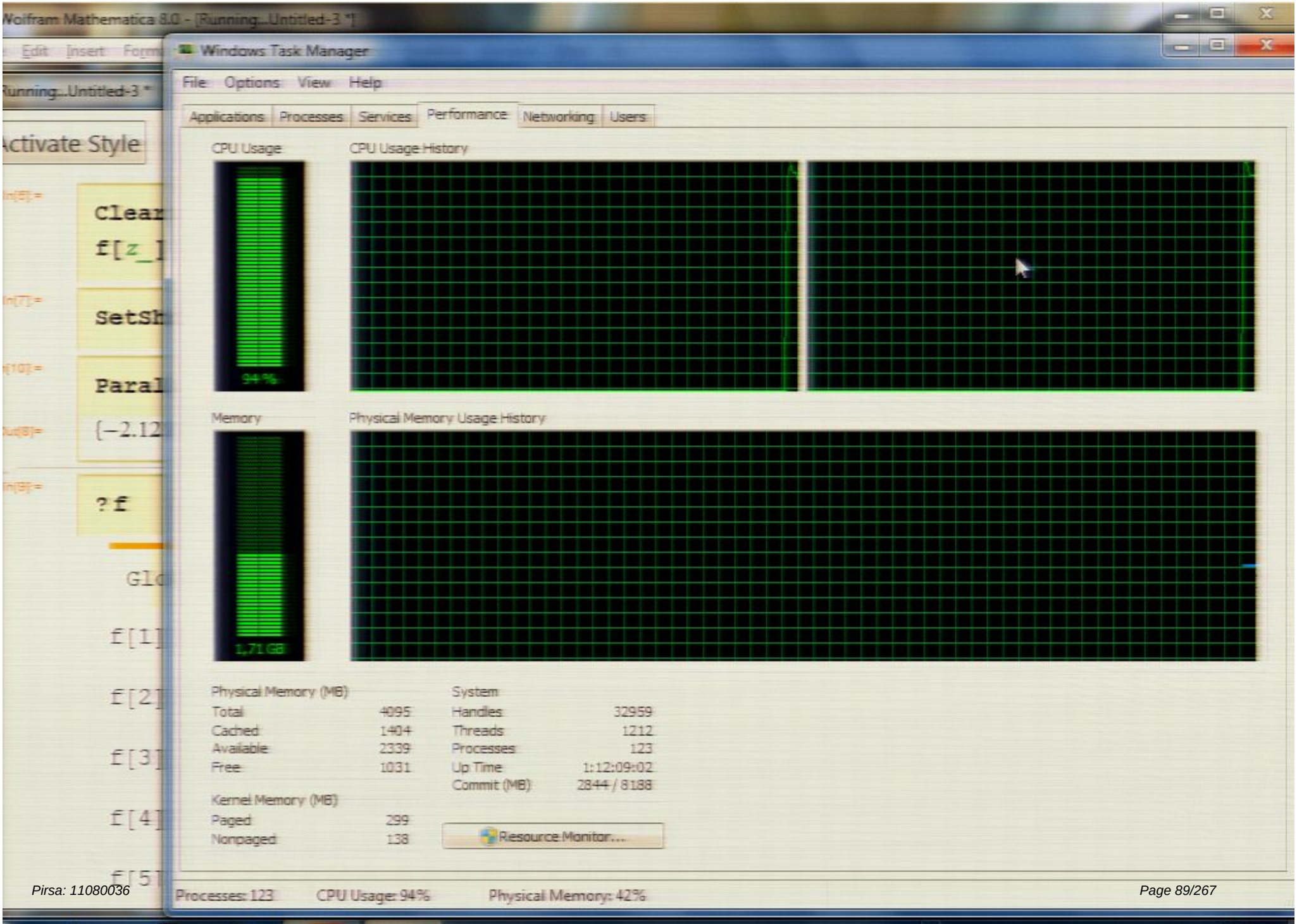
f[4]
f[5]
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
93 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1031
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32958
Threads 1211
Processes 123
Up Time 1:12:09:01
Commit (MB) 2843 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 93%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
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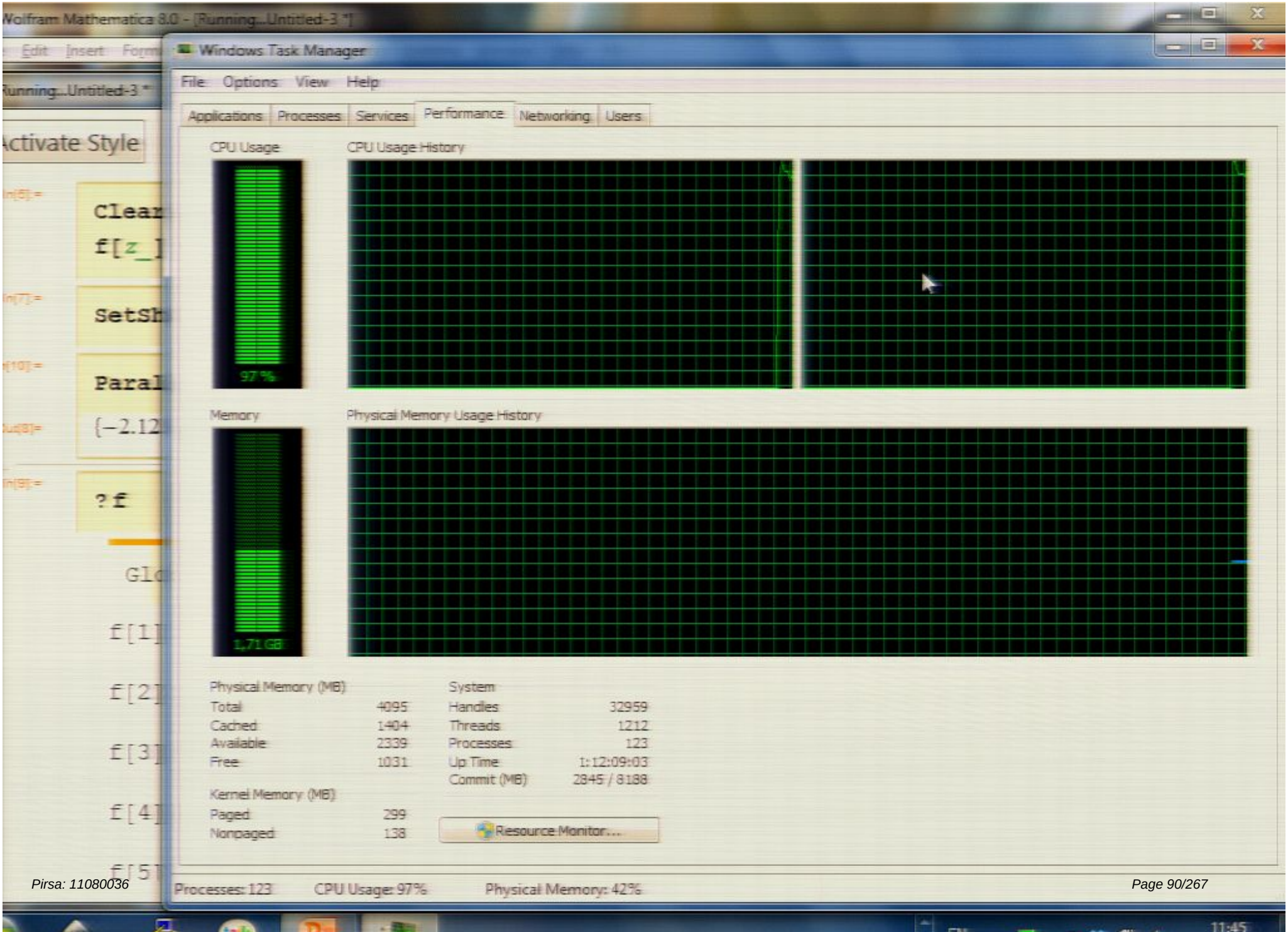
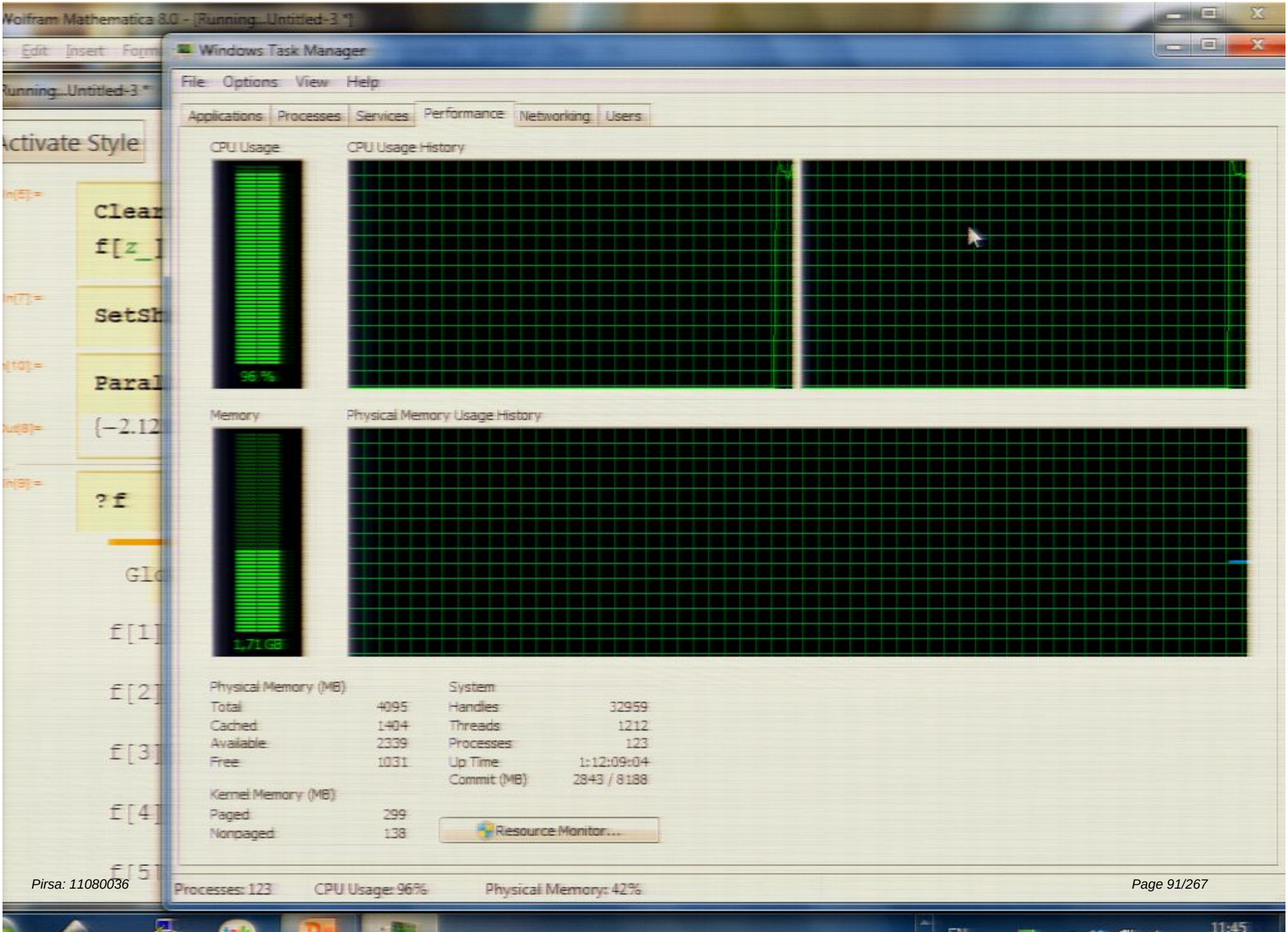
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
94 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1031
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32959
Threads 1212
Processes 123
Up Time 1:12:09:02
Commit (MB) 2844 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 94%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
97 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1031
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32959
Threads 1212
Processes 123
Up Time 1:12:09:03
Commit (MB) 2845 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 97%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
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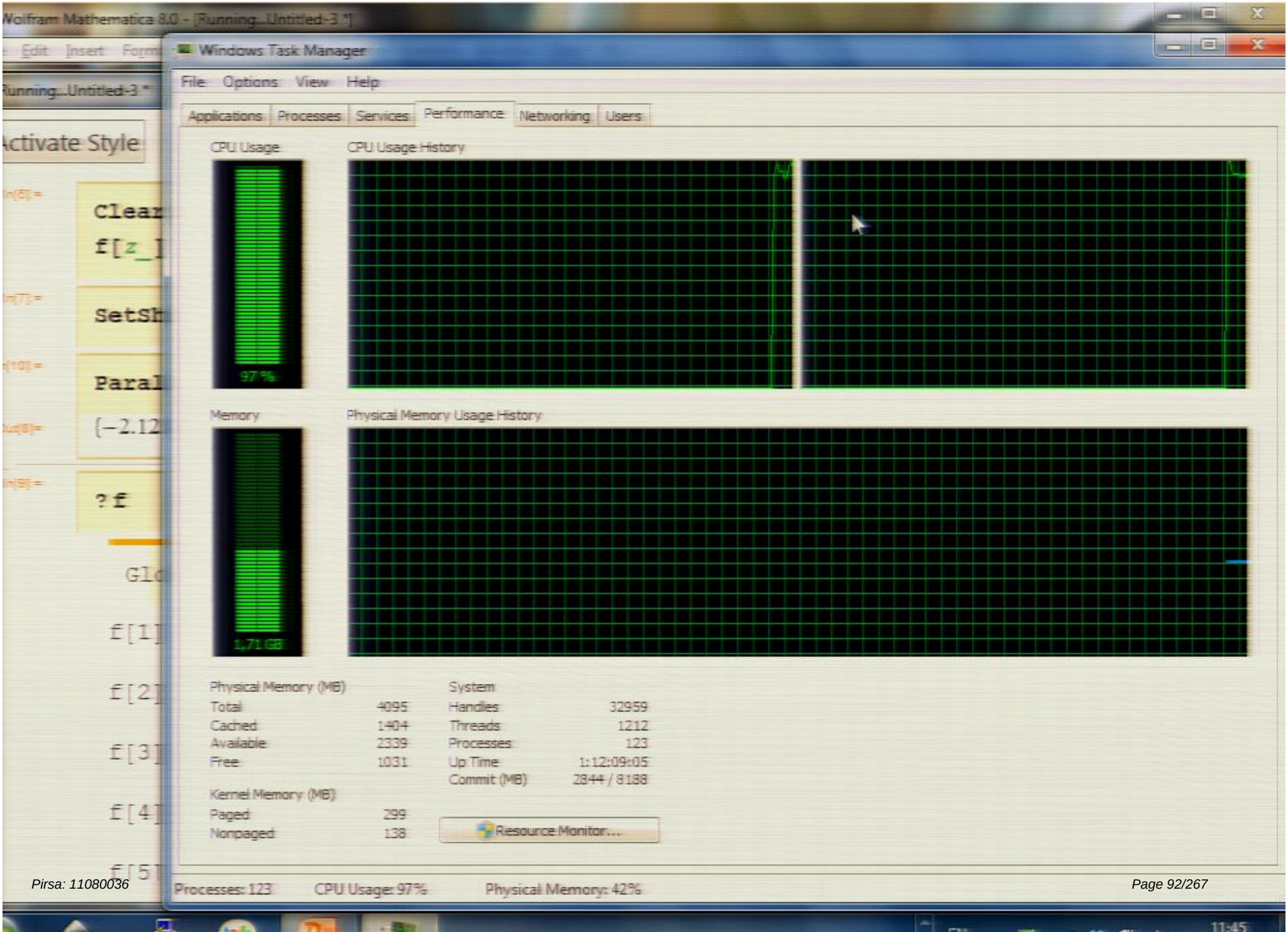
f[1]
f[2]
f[3]
f[4]
f[5]
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
96 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1031
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32959
Threads 1212
Processes 123
Up Time 1:12:09:04
Commit (MB) 2843 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 96%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
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Clear
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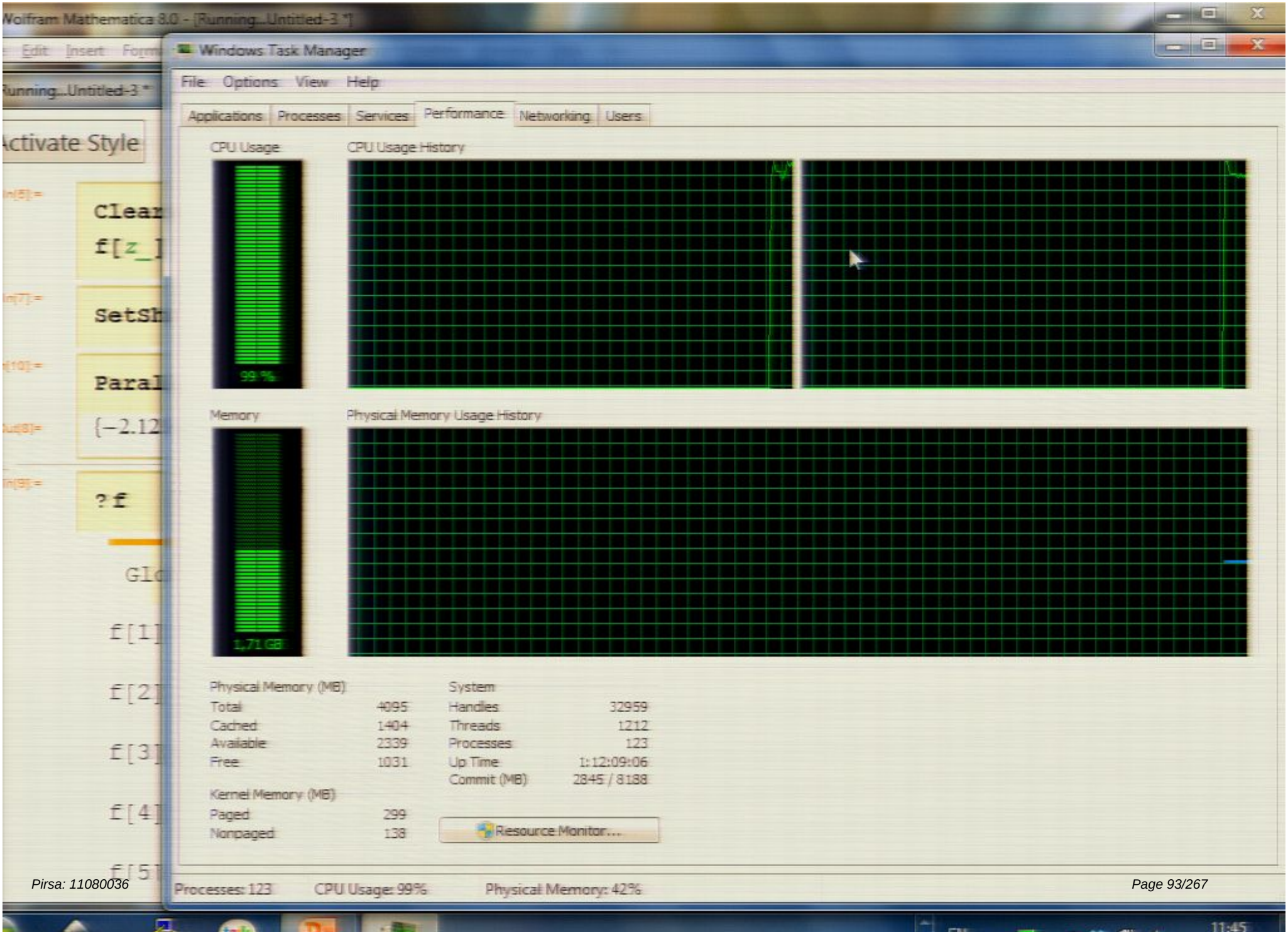
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
97 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1031
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32959
Threads 1212
Processes 123
Up Time 1:12:09:05
Commit (MB) 2844 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 97%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
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Running...Untitled-3 *
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Clear
f[z_]
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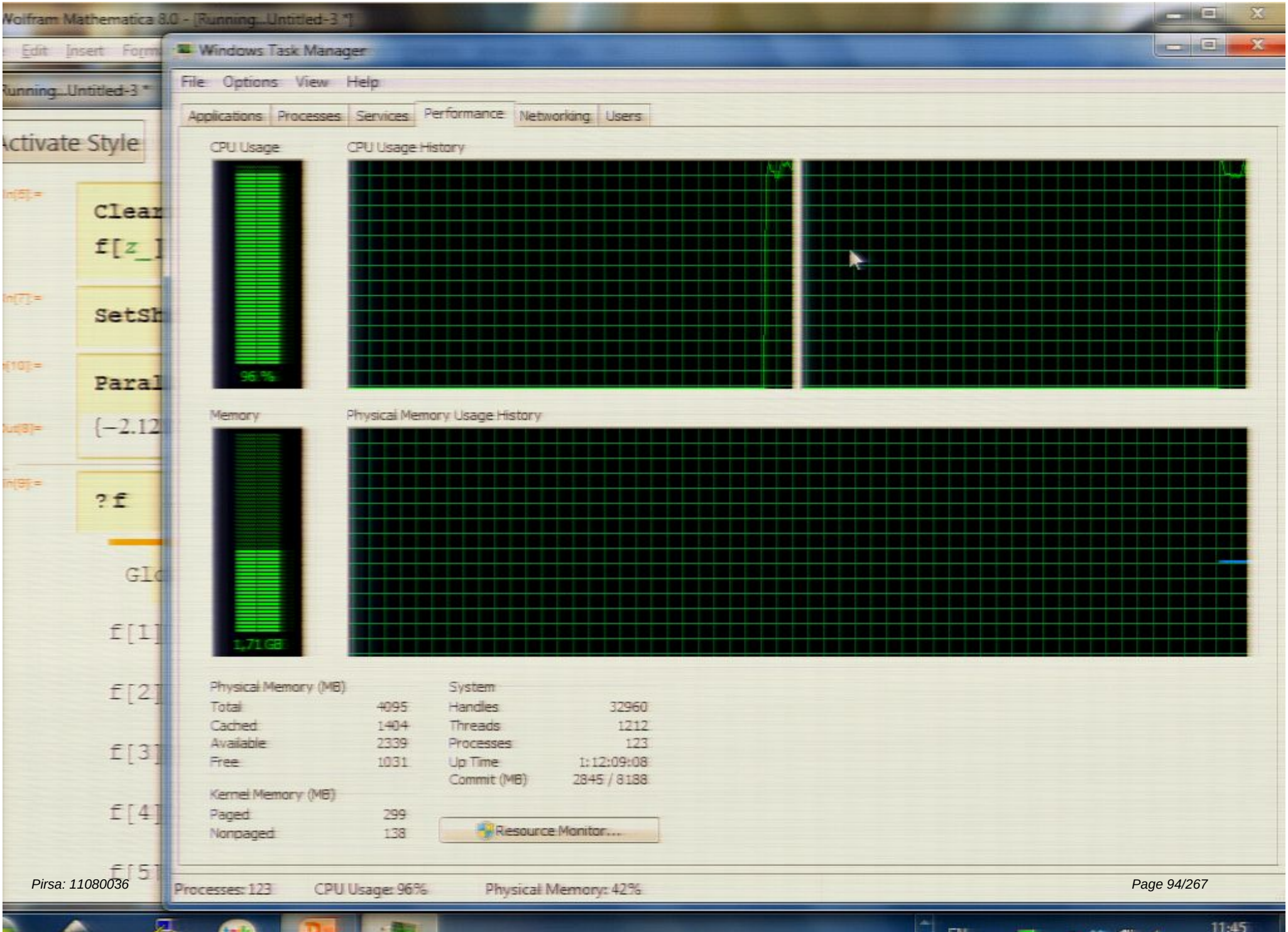
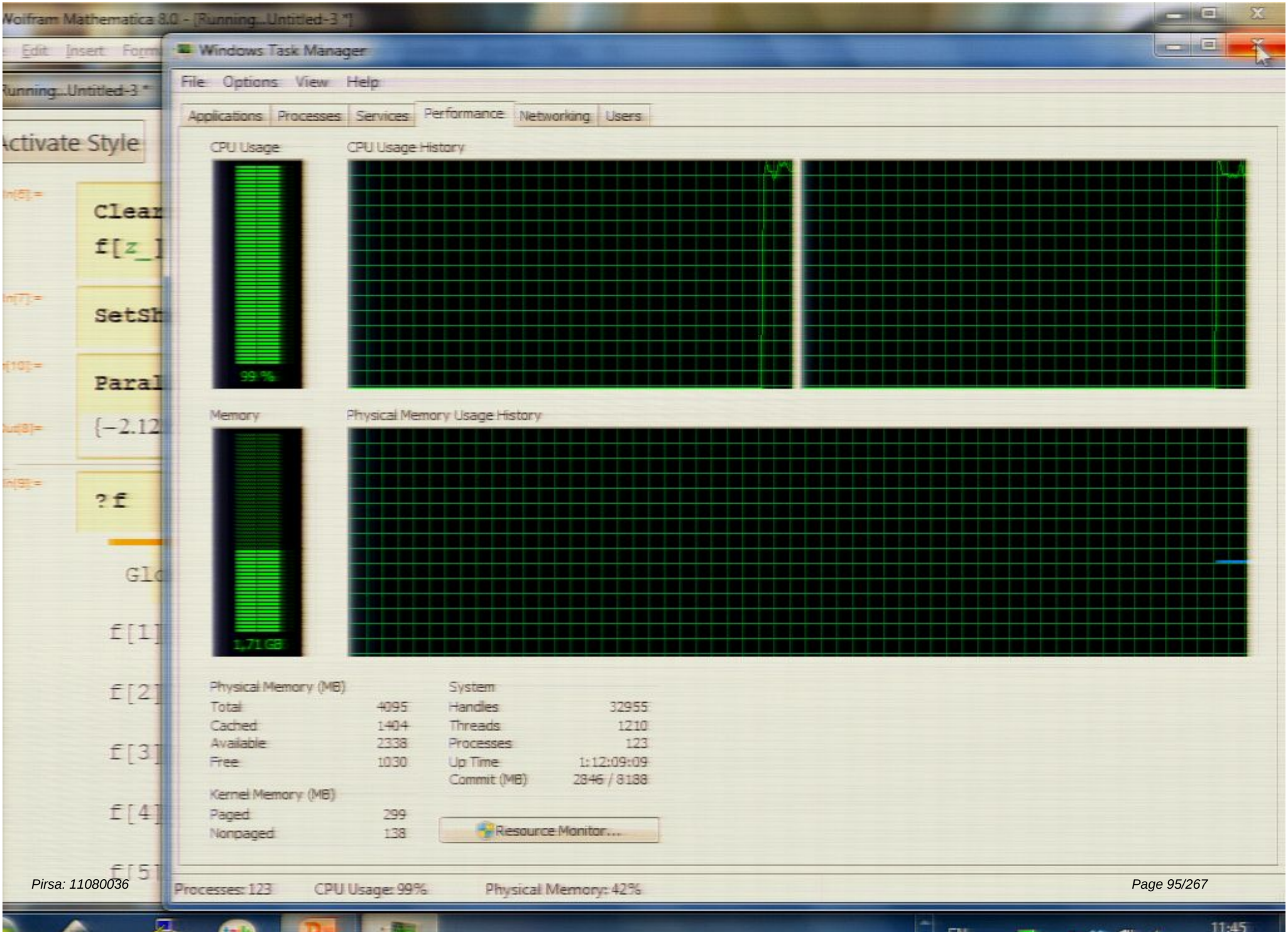
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
99 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1031
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32959
Threads 1212
Processes 123
Up Time 1:12:09:06
Commit (MB) 2845 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 99%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
96 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1031
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32960
Threads 1212
Processes 123
Up Time 1:12:09:08
Commit (MB) 2845 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 96%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
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Activate Style
Clear
f[z_]
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f[1]
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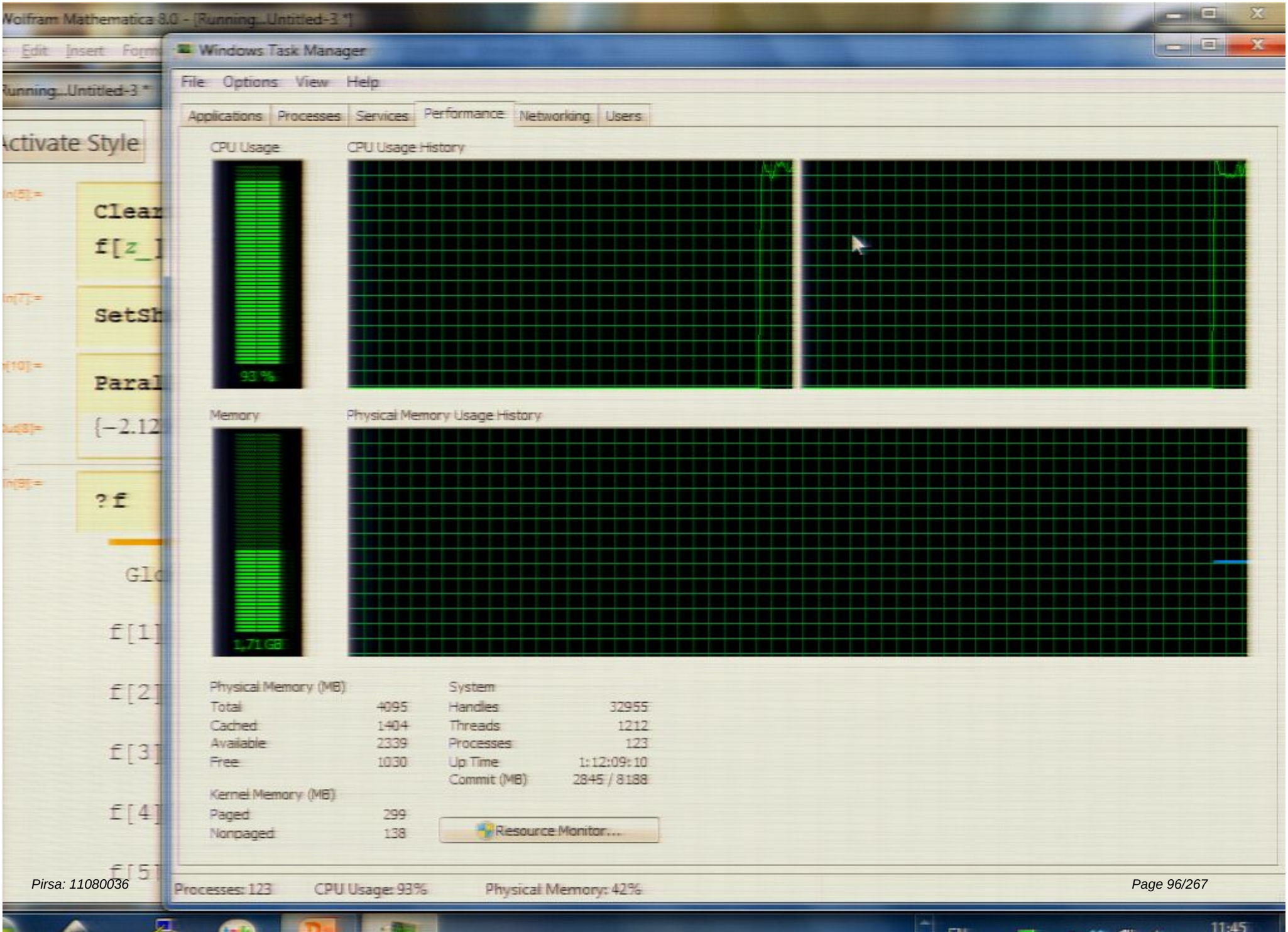
f[3]
f[4]
f[5]
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
99 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2338
Free 1030
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32955
Threads 1210
Processes 123
Up Time 1:12:09:09
Commit (MB) 2846 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 99%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
Edit Insert Form
Running...Untitled-3 *
Activate Style
Clear
f[z_]
SetSh
Paral
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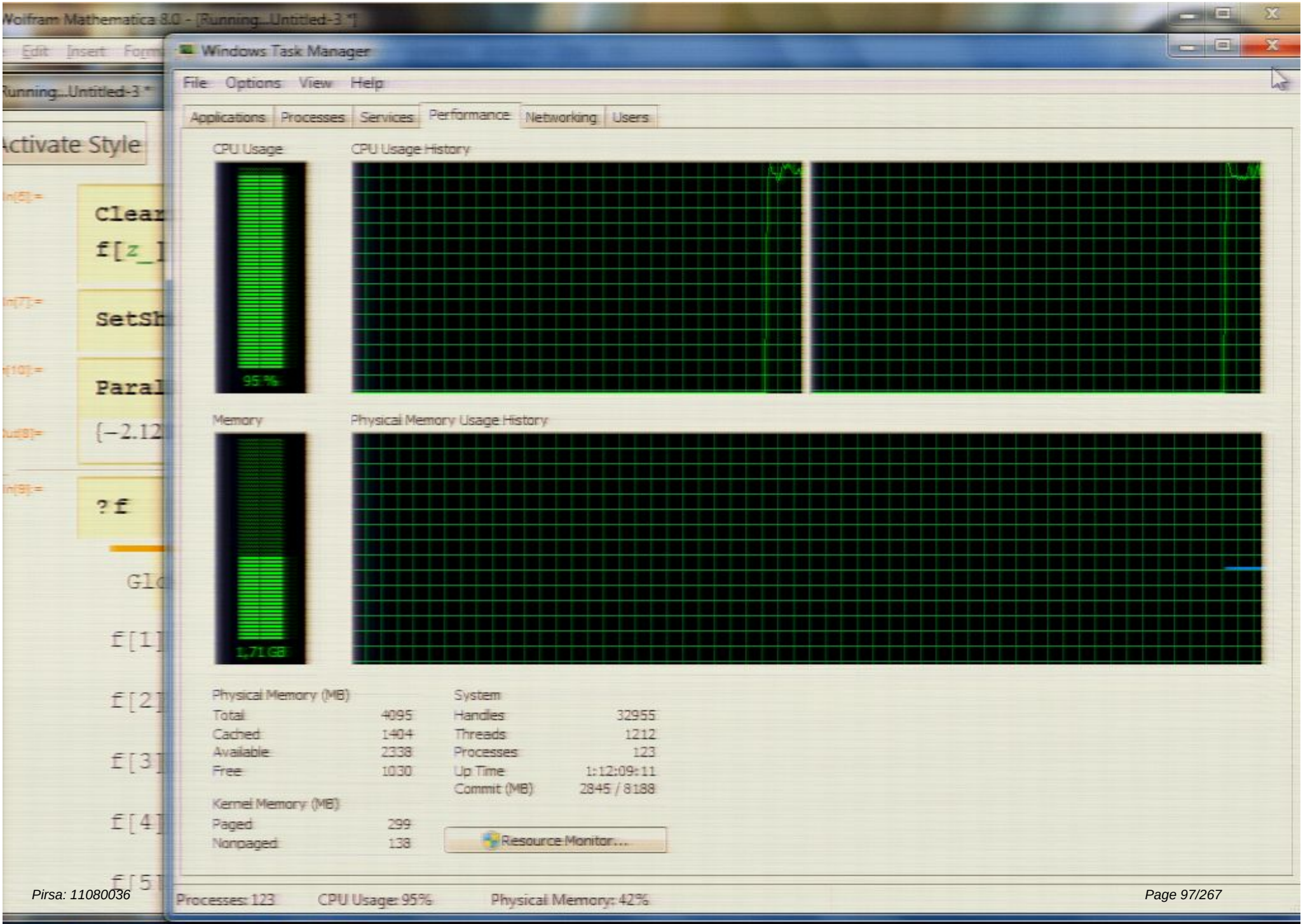
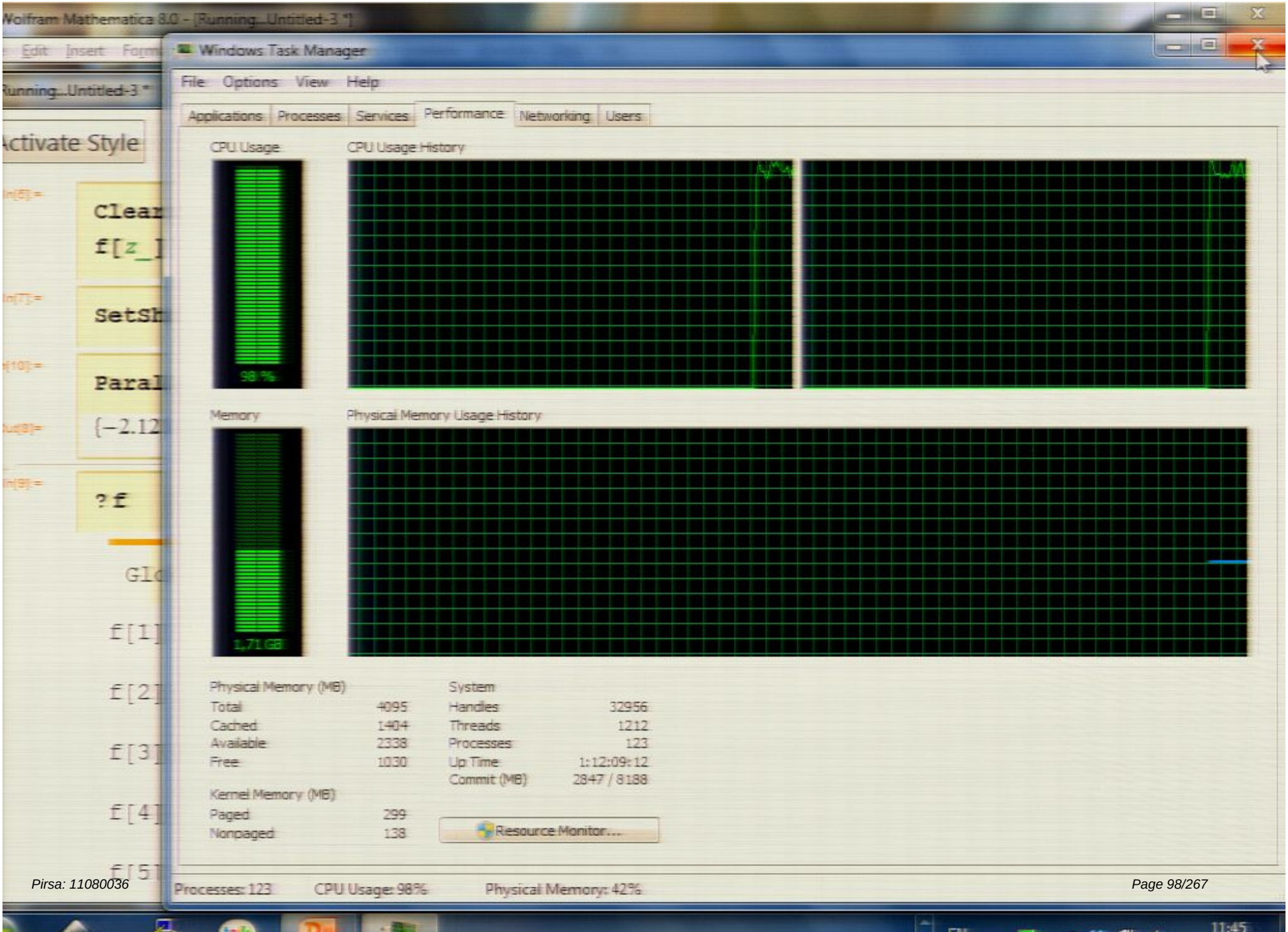
f[5]
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
93 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2339
Free 1030
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32955
Threads 1212
Processes 123
Up Time 1:12:09:10
Commit (MB) 2845 / 8188
Resource Monitor...
Processes: 123 CPU Usage: 93% Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
CPU Usage History
95 %
Memory
Physical Memory Usage History
1,71 GB
Physical Memory (MB)
Total 4095
Cached 1404
Available 2338
Free 1030
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32955
Threads 1212
Processes 123
Up Time 1:12:09:11
Commit (MB) 2845 / 8188
Resource Monitor...
Processes: 123
CPU Usage: 95%
Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
Edit Insert Form
Running...Untitled-3 *
Activate Style
Clear
f[z_]
SetSh
Paral
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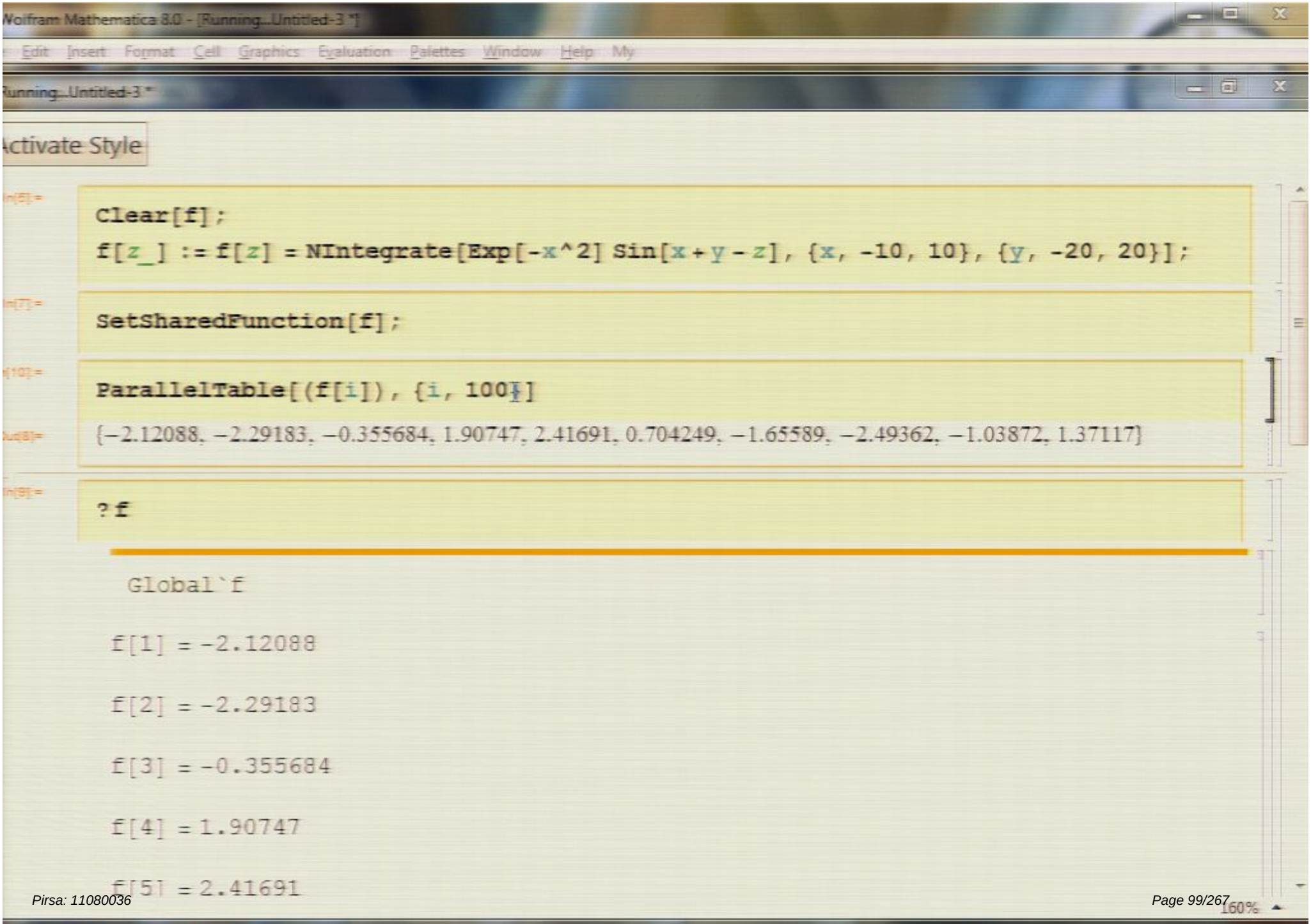
f[1]
f[2]
f[3]
f[4]
f[5]
Windows Task Manager
File Options View Help
Applications Processes Services Performance Networking Users
CPU Usage
98 %
CPU Usage History
Memory
1,71 GB
Physical Memory Usage History
Physical Memory (MB)
Total 4095
Cached 1404
Available 2338
Free 1030
Kernel Memory (MB)
Paged 299
Nonpaged 138
System
Handles 32956
Threads 1212
Processes 123
Up Time 1:12:09:12
Commit (MB) 2847 / 8188
Resource Monitor...
Processes: 123 CPU Usage: 98% Physical Memory: 42%


Wolfram Mathematica 8.0 - [Running...Untitled-3 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Running...Untitled-3*
Activate Style
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
SetSharedFunction[f];
ParallelTable[(f[i]), {i, 100}]
{-2.12088, -2.29183, -0.355684, 1.90747, 2.41691, 0.704249, -1.65589, -2.49362, -1.03872, 1.37117}
?f
Global`f
f[1] = -2.12088
f[2] = -2.29183
f[3] = -0.355684
f[4] = 1.90747
f[5] = 2.41691
160%

Wolfram Mathematica 8.0 - [Running...Untitled-3 *]

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Running...Untitled-3 *

Activate Style

```
In[6]:= Clear[f];
        f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];

In[7]:= SetSharedFunction[f];

In[10]:= ParallelTable[(f[i]), {i, 100}]

Out[8]= {-2.12088, -2.29183, -0.355684, 1.90747, 2.41691, 0.704249, -1.65589, -2.49362, -1.03872, 1.37117}

In[9]:= ?f

 Global`f

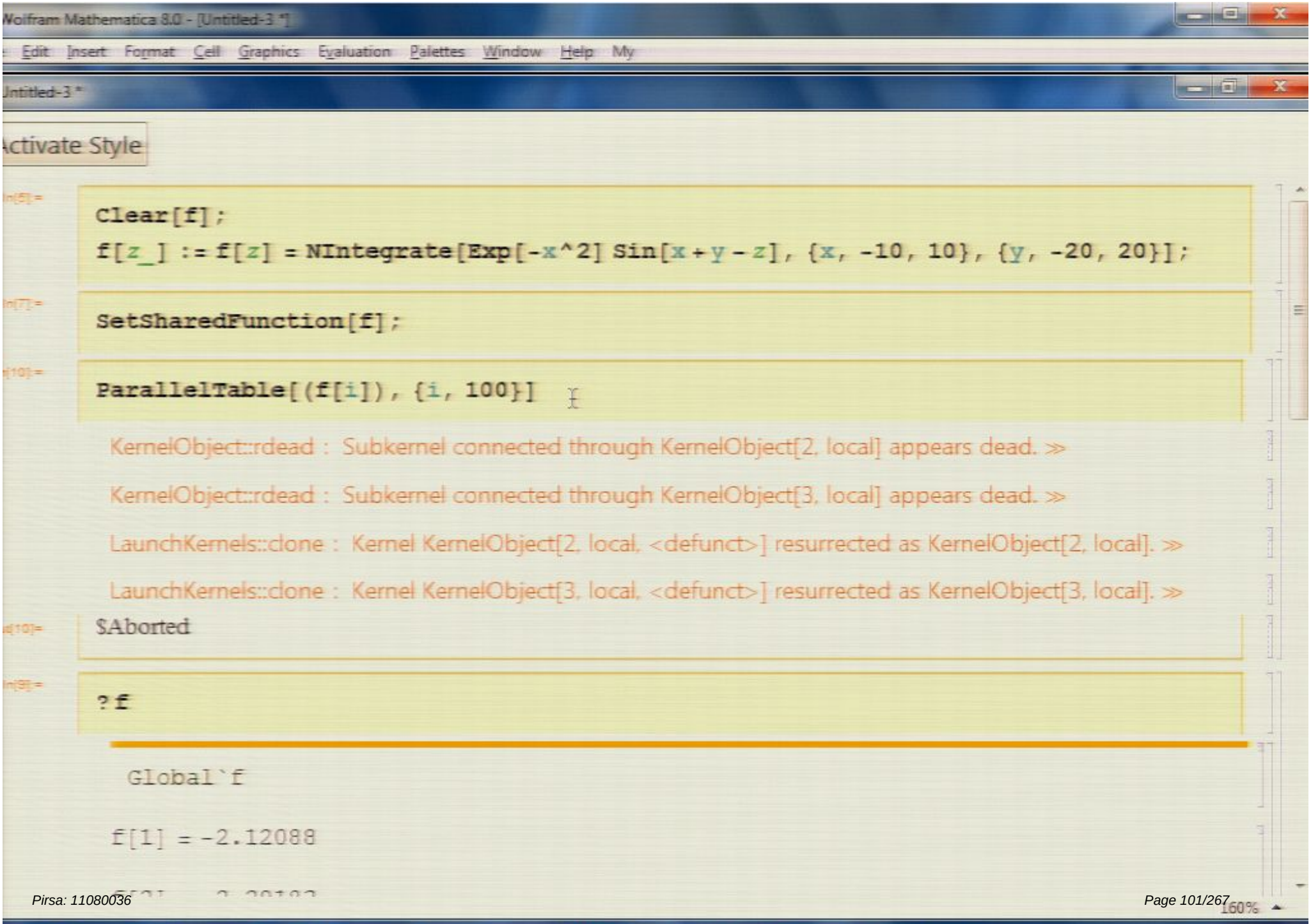
 f[1] = -2.12088

 f[2] = -2.29183

 f[3] = -0.355684

 f[4] = 1.90747

 f[5] = 2.41691
```


Wolfram Mathematica 8.0 - [Untitled-3 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-3 *
Activate Style
In[5]:=
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
In[7]:=
SetSharedFunction[f];
In[10]:=
ParallelTable[(f[i]), {i, 100}]
KernelObject::rdead : Subkernel connected through KernelObject[2, local] appears dead. >>
KernelObject::rdead : Subkernel connected through KernelObject[3, local] appears dead. >>
LaunchKernels::clone : Kernel KernelObject[2, local, <defunct>] resurrected as KernelObject[2, local]. >>
LaunchKernels::clone : Kernel KernelObject[3, local, <defunct>] resurrected as KernelObject[3, local]. >>
Out[10]= $Aborted
In[9]:=
?f
Global`f
f[1] = -2.12088
160%

Wolfram Mathematica 8.0 - [Untitled-3 *]

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Untitled-3 *

Activate Style

```
f[6] = 0.704249

f[7] = -1.65589

f[8] = -2.49362

f[9] = -1.03872

f[10] = 1.37117

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]

Table[{Print[i]; f[Random[]]}, {i, 100}]
```

Wolfram Mathematica 8.0 - [Running...Untitled-3 *]

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Running...Untitled-3 *

Activate Style

```
f[7] = -1.65589

f[8] = -2.49362

f[9] = -1.03872

f[10] = 1.37117

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]
```

```
Table[{Print[i]; f[Random[]]}, {i, 100}]
```

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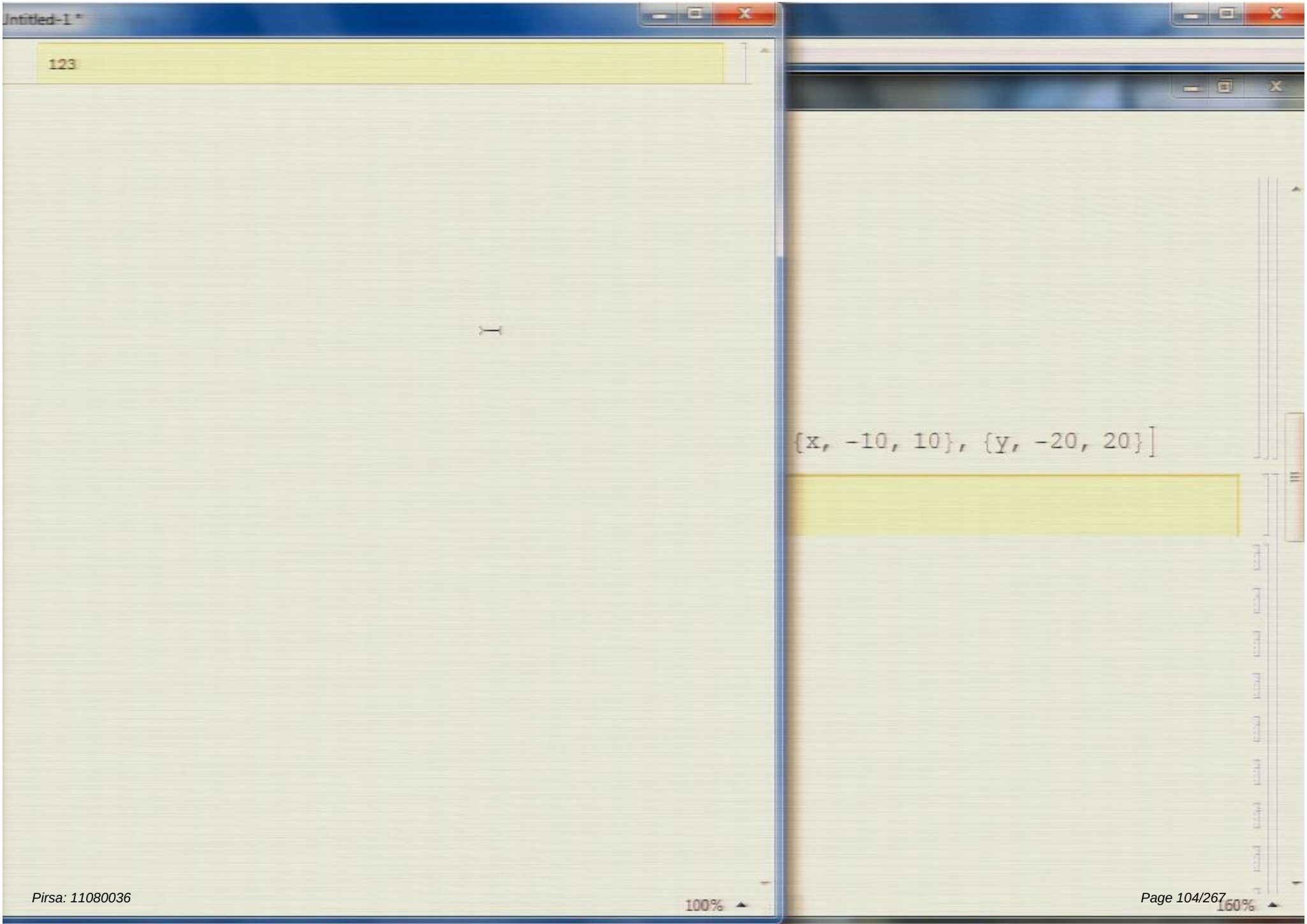
Untitled-1 *
123
100%
{x, -10, 10}, {y, -20, 20}]
160%

Wolfram Mathematica 8.0 - [Untitled-3 *]

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Untitled-3 *

Activate Style

```
In[6]:= Clear[f];
        f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];

In[7]:= SetSharedFunction[f];

In[10]:= ParallelTable[(f[i]), {i, 100}]
```

KernelObject::rdead : Subkernel connected through KernelObject[2, local] appears dead. >>

KernelObject::rdead : Subkernel connected through KernelObject[3, local] appears dead. >>

LaunchKernels::clone : Kernel KernelObject[2, local, <defunct>] resurrected as KernelObject[2, local]. >>

LaunchKernels::clone : Kernel KernelObject[3, local, <defunct>] resurrected as KernelObject[3, local]. >>

```
Out[10]= $Aborted

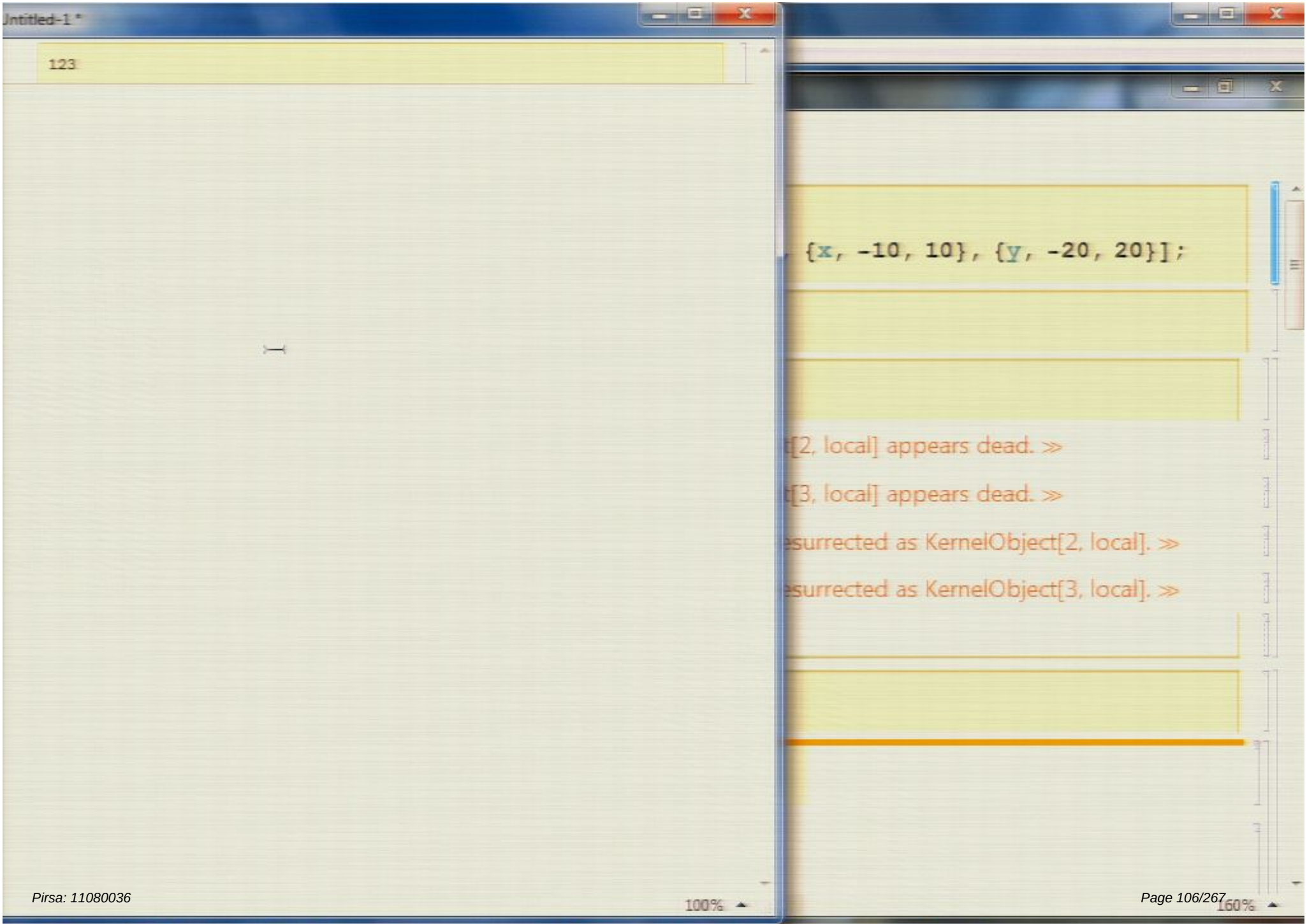
In[8]:= ?f
```

```
Global`f

f[1] = -2.12088

f[2] = 2.20193
```


160%


Untitled-1 *
123
{x, -10, 10}, {y, -20, 20}];
[2, local] appears dead. ≫
[3, local] appears dead. ≫
esurrected as KernelObject[2, local]. ≫
esurrected as KernelObject[3, local]. ≫
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Wolfram Mathematica 8.0 - [Untitled-3 *]

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Untitled-3 *

Activate Style

```
f[9] = -1.03872

f[10] = 1.37117

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]

Table[{Print[i]; f[Random[]]}, {i, 100}]
```

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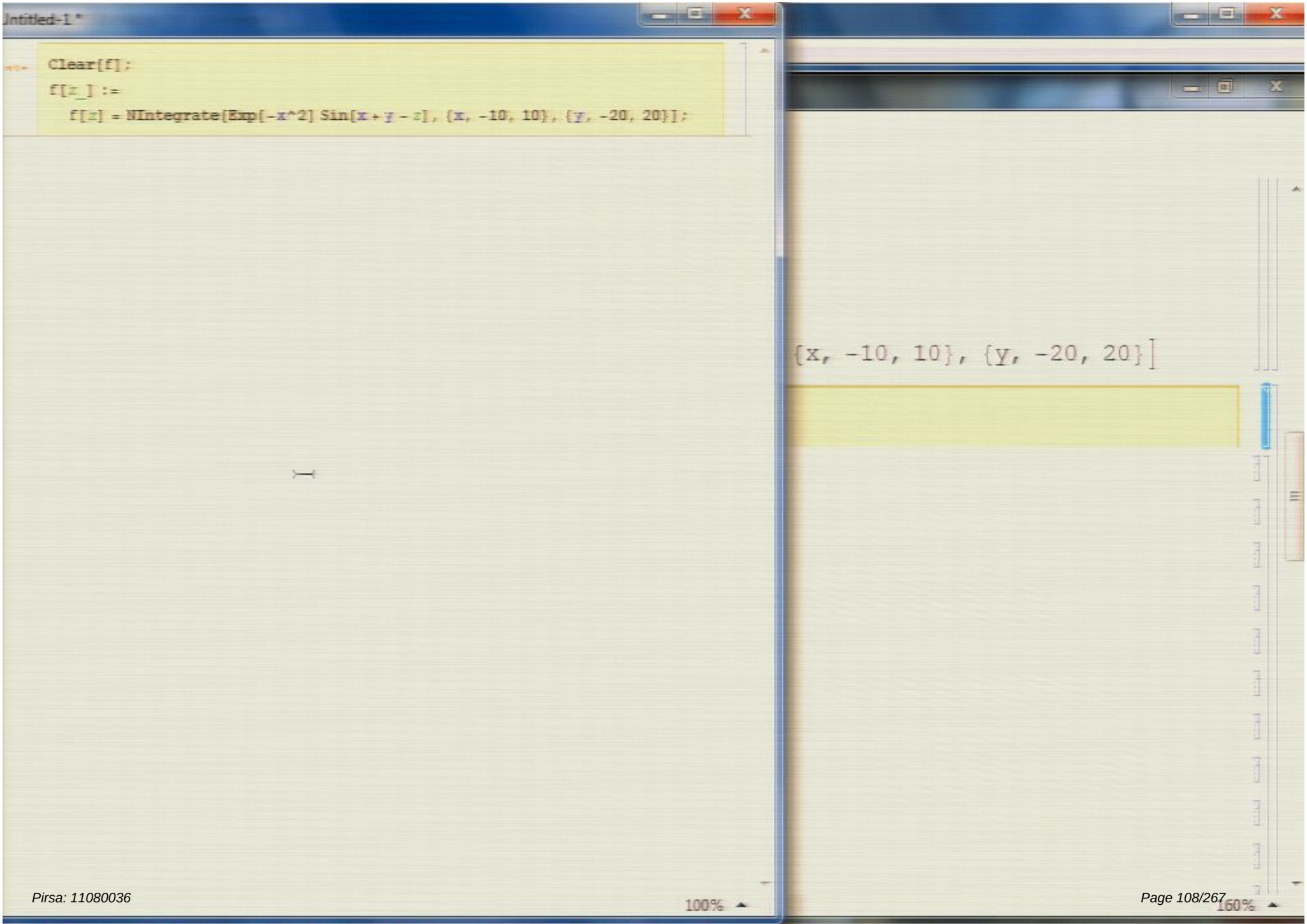
Untitled-1 *
Clear[f];
f[z_] :=
f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
100%
{x, -10, 10}, {y, -20, 20}]
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Wolfram Mathematica 7.0 - [Untitled-1 *]

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Untitled-1 *

```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

```
Table[{Print[i]; f[Random[]]}, {i, 100}]
```

Wolfram Mathematica 7.0 - [Untitled-1 *]

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Untitled-1 *

In[1]:=

```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

```
Table[{Print[i]; f[Random[]]}, {i, 100}]
```


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11:46

Wolfram Mathematica 7.0 - [Running...Untitled-1 *]

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Running...Untitled-1 *

In[3]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

In[6]:=
```
Table[{Print[i]; f[Random[]]}, {i, 100}]
```

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Wolfram Mathematica 7.0 - [Running...Untitled-1 *]

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Running...Untitled-1 *

```
In[3]:= Clear[f];
        f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];

In[5]:= Table[{Print[i]; f[Random[]]}, {i, 100}]
```

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11
12
```


160%

11:47

Wolfram Mathematica 7.0 - [Untitled-1 *]

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Untitled-1 *

In[3]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
```

In[6]:=
```
Table[{Print[i]; f[Random[]]}, {i, 100}]
```

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13

Out[6]= $Aborted

Wolfram Mathematica 7.0 - [Running...Untitled-1 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help

Running...Untitled-1 *

In[3]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

In[6]:=
```
Monitor[Table[{f[Random[]]}, {i, 100}], i]
```

4

NIntegrate::slwcon :

Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>

160%

11:47

Wolfram Mathematica 7.0 - [Untitled-1 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help

Untitled-1 *

In[3]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
```

```
Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i]]
```

NIntegrate::slwcon :

Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>

Out[6]= $Aborted

160%

11:47

Wolfram Mathematica 7.0 - [Untitled-1 *]

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Untitled-1 *

In[3]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

```
Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i]
```

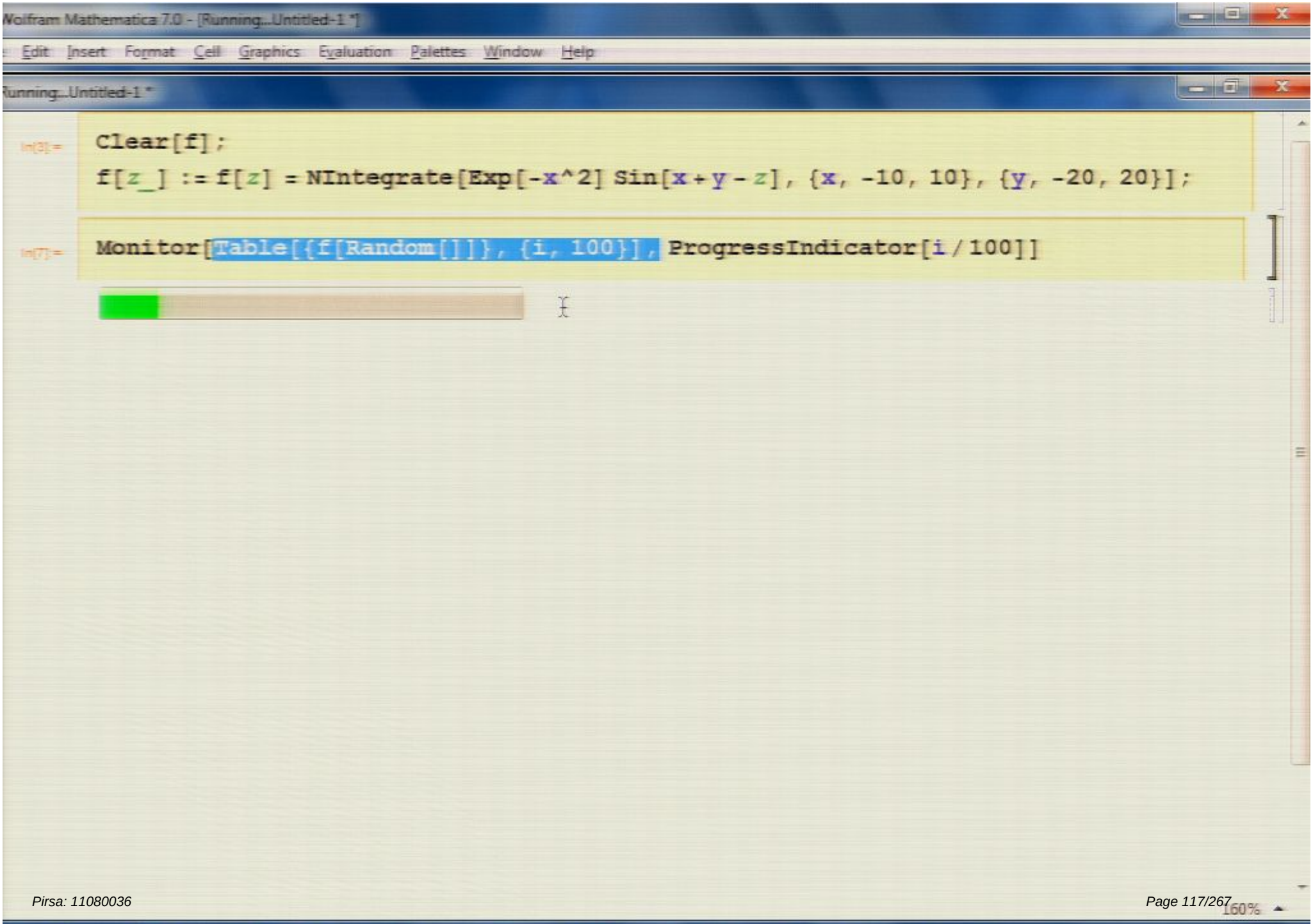
NIntegrate::slwcon :

Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. ≫

Out[6]= $Aborted

160%

11:47


Wolfram Mathematica 7.0 - [Running...Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Running...Untitled-1 *
In[3]:=
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
In[7]:=
Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i/100]]

Wolfram Mathematica 7.0 - [Untitled-1 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help

Untitled-1 *

In[3]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

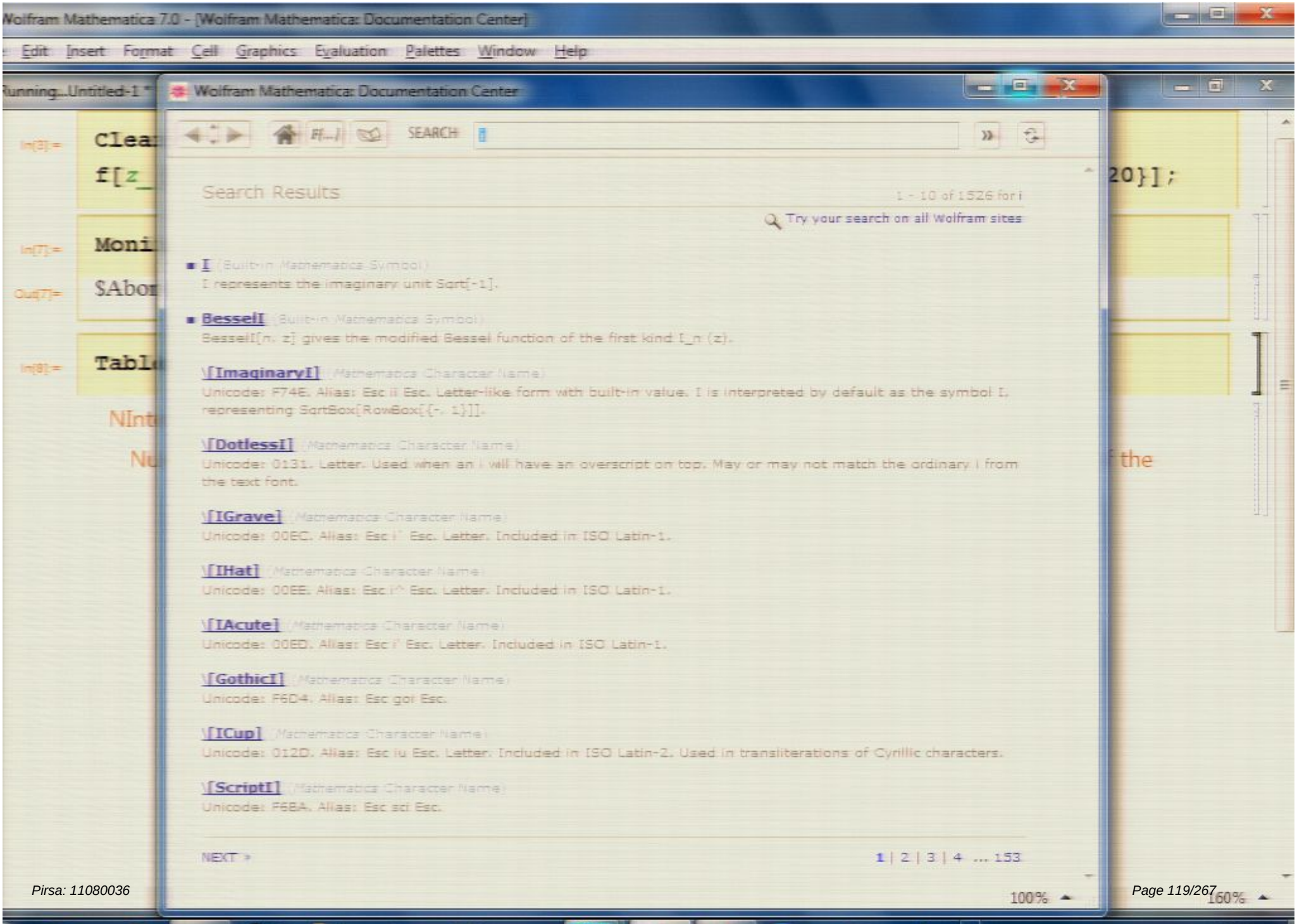
In[7]:=
```
Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i / 100]]
```

Out[7]=
```
$Aborted
```

```
Table[{f[Random[]]}, {i, 100}]
```


160%

11:47


Wolfram Mathematica 7.0 - [Wolfram Mathematica: Documentation Center]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Wolfram Mathematica: Documentation Center
SEARCH
Search Results
1 - 10 of 1526 for I
Try your search on all Wolfram sites
I (Built-in Mathematica Symbol)
I represents the imaginary unit Sqrt[-1].
BesselI (Built-in Mathematica Symbol)
BesselI[n, z] gives the modified Bessel function of the first kind I_n (z).
\[ImaginaryI] (Mathematica Character Name)
Unicode: F74E. Alias: Esc ii Esc. Letter-like form with built-in value. I is interpreted by default as the symbol I, representing SqrtBox[RowBox[{-, 1}]].
\[DotlessI] (Mathematica Character Name)
Unicode: 0131. Letter. Used when an i will have an overscript on top. May or may not match the ordinary i from the text font.
\[IGrave] (Mathematica Character Name)
Unicode: 00EC. Alias: Esc i` Esc. Letter. Included in ISO Latin-1.
\[IHat] (Mathematica Character Name)
Unicode: 00EE. Alias: Esc i^ Esc. Letter. Included in ISO Latin-1.
\[IAcute] (Mathematica Character Name)
Unicode: 00ED. Alias: Esc i' Esc. Letter. Included in ISO Latin-1.
\[GothicI] (Mathematica Character Name)
Unicode: F6D4. Alias: Esc goi Esc.
\[ICup] (Mathematica Character Name)
Unicode: 012D. Alias: Esc iu Esc. Letter. Included in ISO Latin-2. Used in transliterations of Cyrillic characters.
\[ScriptI] (Mathematica Character Name)
Unicode: F6BA. Alias: Esc sci Esc.
NEXT »
1 | 2 | 3 | 4 ... 153
100%

Wolfram Mathematica 7.0 - [Running...Untitled-1 *]

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Running...Untitled-1 *

In[3]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
```

In[7]:=
```
Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i / 100]]
```

Out[7]= $Aborted

In[8]:=
```
Table[{f[Random[]]}, {i, 100}]
```

NIntegrate::slwcon :

Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. ≫

160%

11:48

Wolfram Mathematica 7.0 - [Running...Untitled-1 *]

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Running...Untitled-1 *

In[3]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
```

In[7]:=
```
Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i/100]]
```

Out[7]=
```
$Aborted
```

In[8]:=
```
Table[{f[Random[]]}, {i, 100}]
```

NIntegrate::slwcon :

Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. ≫

Wolfram Mathematica 7.0 - [Running...Untitled-1 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help

Running...Untitled-1 *

20

In[3]:=
```
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
```

In[7]:=
```
Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i/100]]
```

Out[7]= $Aborted

In[8]:=
```
Table[{f[Random[]]}, {i, 100}]
```

NIntegrate::slwcon :

Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>

160%

11:48

Wolfram Mathematica 7.0 - [Running...Untitled-1 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help

Running...Untitled-1 *

{33, 100}

In[7]:=
```
Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i / 100]]
```

Out[7]= $Aborted

In[8]:=
```
Table[{f[Random[]]}, {i, 100}]
```

NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>

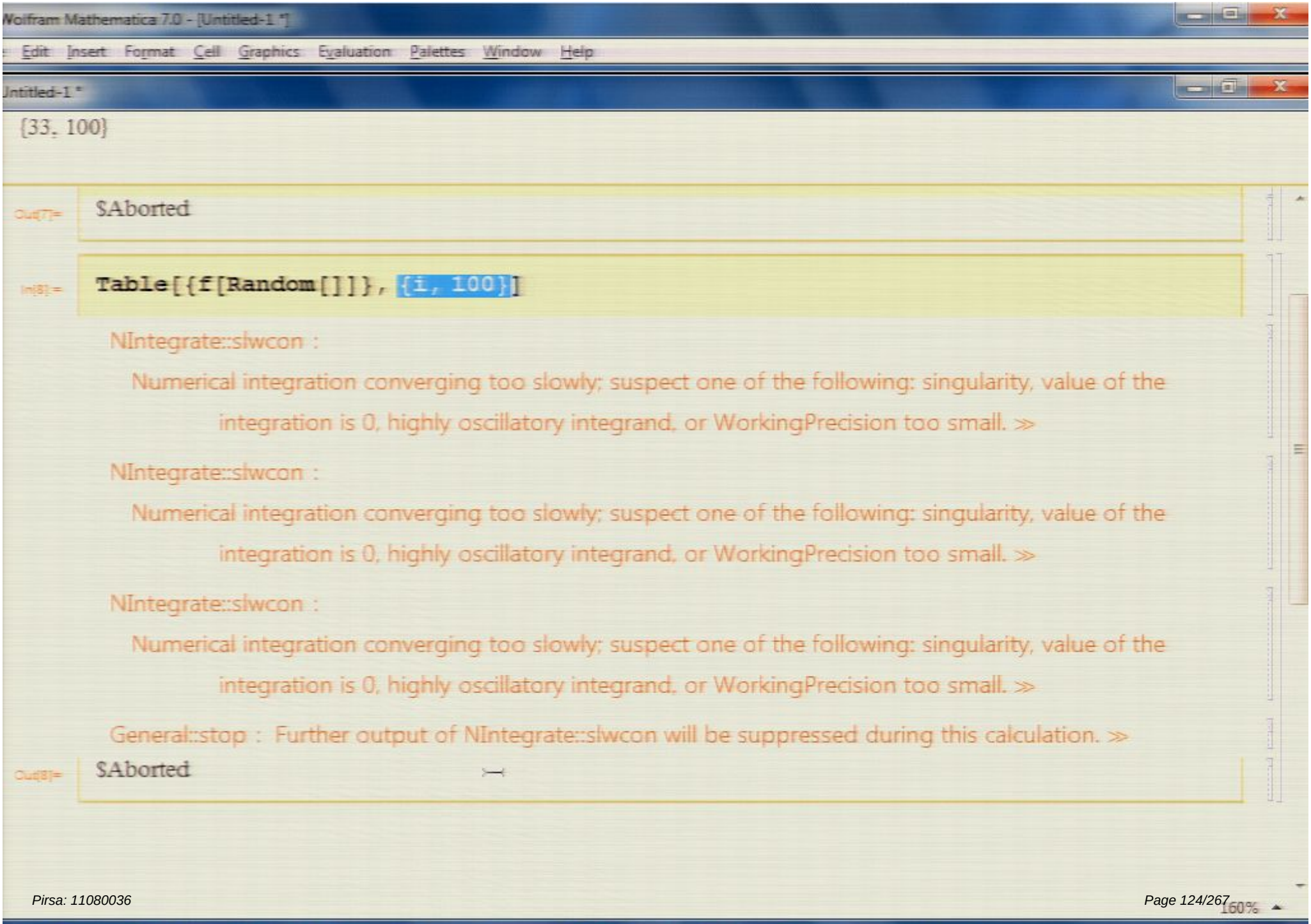
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>

NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>

General::stop : Further output of NIntegrate::slwcon will be suppressed during this calculation. >>

160%

11:48


Wolfram Mathematica 7.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Untitled-1 *
{33, 100}
Out[7]= $Aborted
In[8]:= Table[{f[Random[]]}, {i, 100}]
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. ≫
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. ≫
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. ≫
General::stop : Further output of NIntegrate::slwcon will be suppressed during this calculation. ≫
Out[8]= $Aborted

Wolfram Mathematica 8.0 - [Untitled-3 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-3 *

Activate Style

```
f[9] = -1.03872

f[10] = 1.37117

f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}]

Table[{Print[i]; f[Random[]]}, {i, 100}]
```

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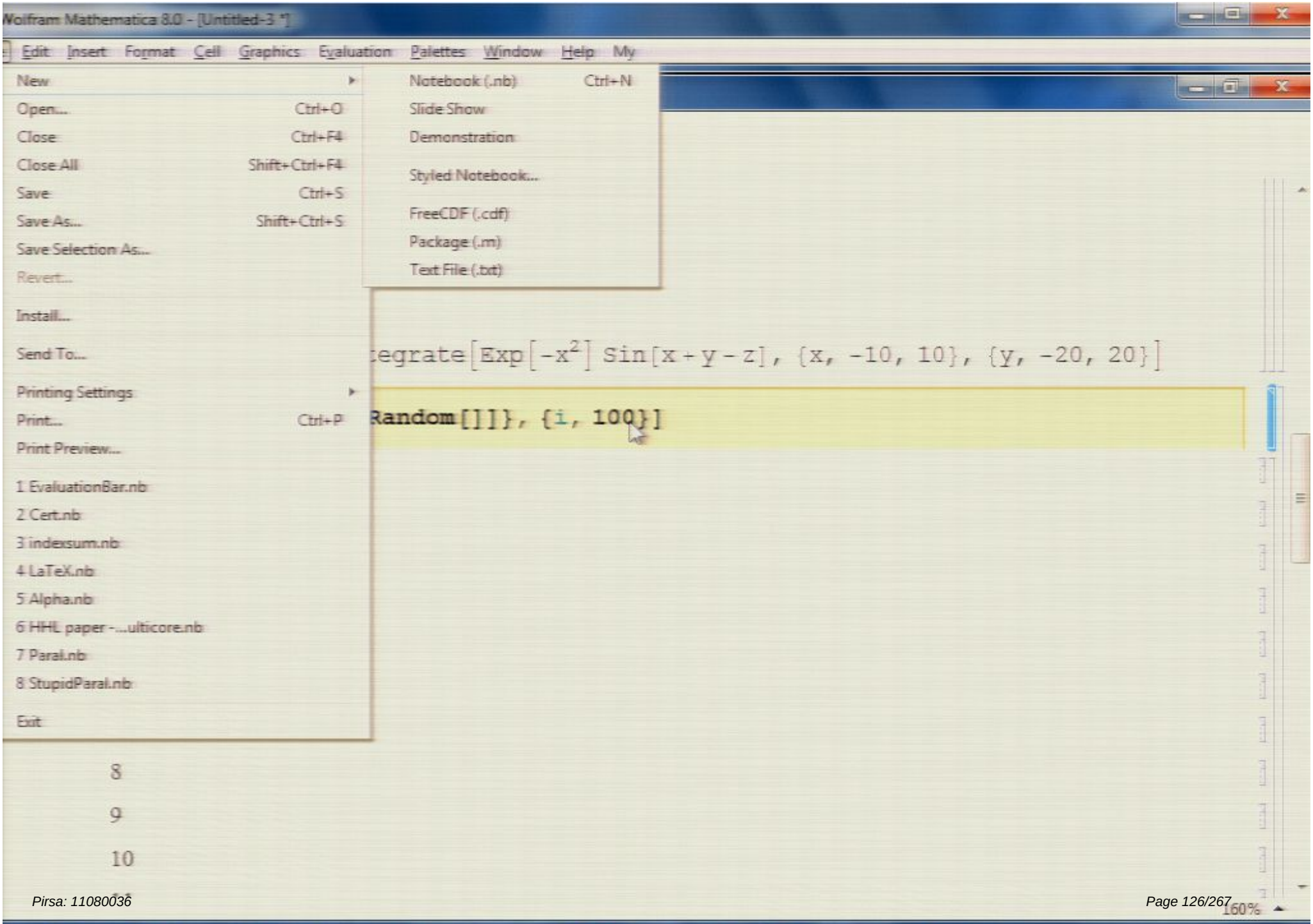
160%


Wolfram Mathematica 8.0 - [Untitled-3 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
New
Open... Ctrl+O
Close Ctrl+F4
Close All Shift+Ctrl+F4
Save Ctrl+S
Save As... Shift+Ctrl+S
Save Selection As...
Revert...
Install...
Send To...
Printing Settings
Print... Ctrl+P
Print Preview...
1 EvaluationBar.nb
2 Cert.nb
3 indexsum.nb
4 LaTeX.nb
5 Alpha.nb
6 HHL paper -...ulticore.nb
7 Paral.nb
8 StupidParal.nb
Exit
Notebook (.nb) Ctrl+N
Slide Show
Demonstration
Styled Notebook...
FreeCDF (.cdf)
Package (.m)
Text File (.txt)
egrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}]
Random[]]}, {i, 100}]
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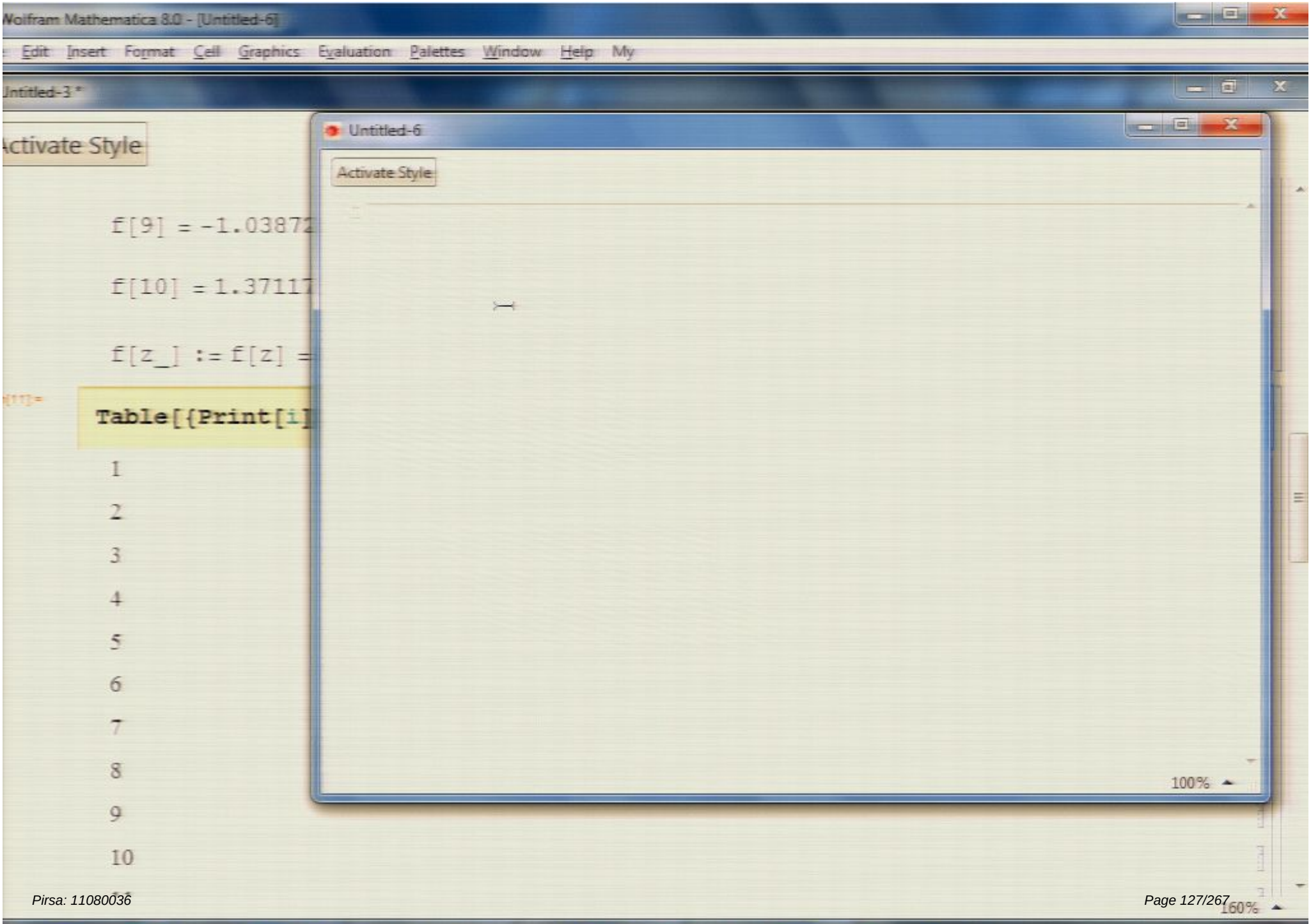
160%


Wolfram Mathematica 8.0 - [Untitled-6]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-3 *
Activate Style
f[9] = -1.03872
f[10] = 1.37117
f[z_] := f[z] =
Table[{Print[i]
1
2
3
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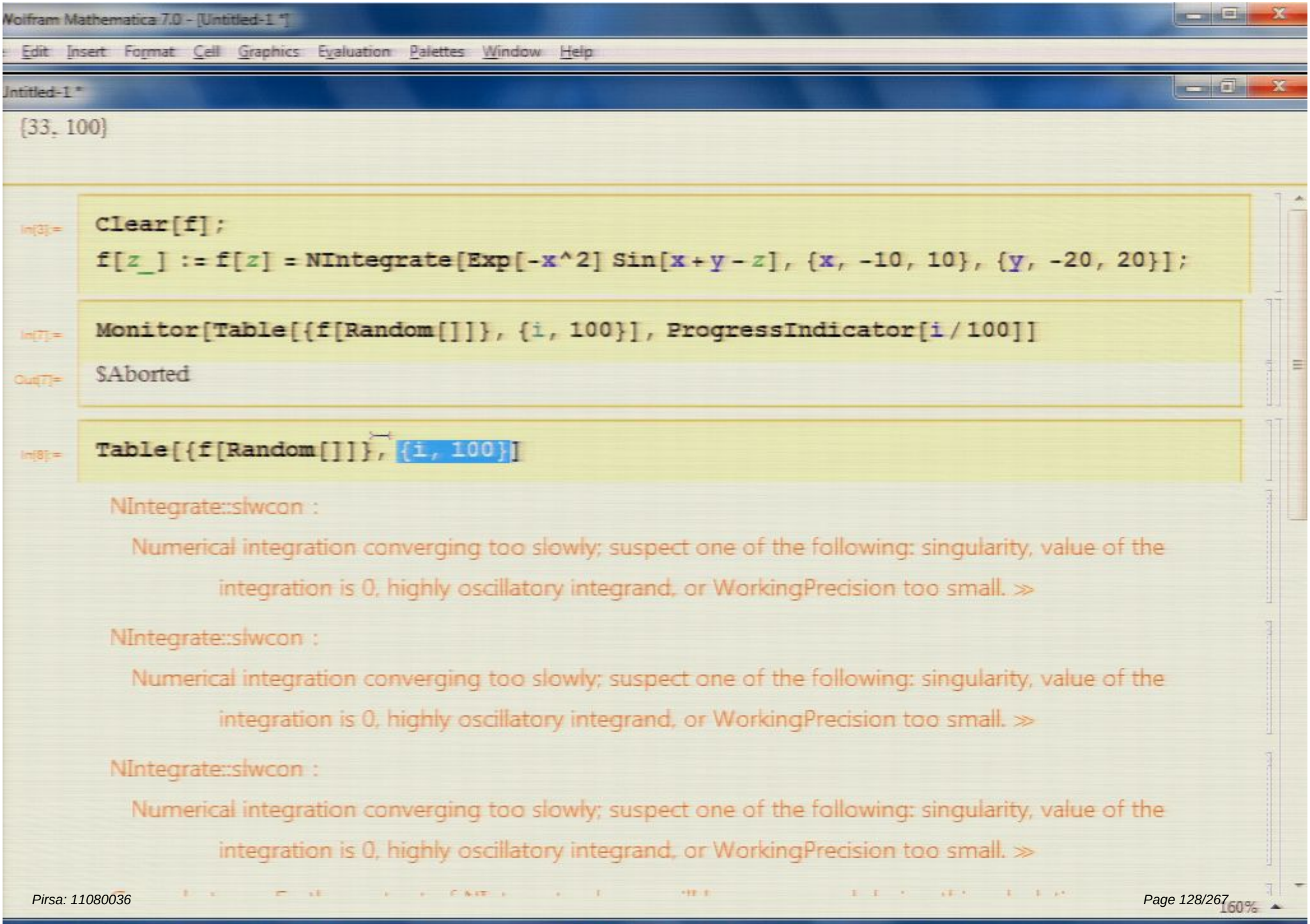
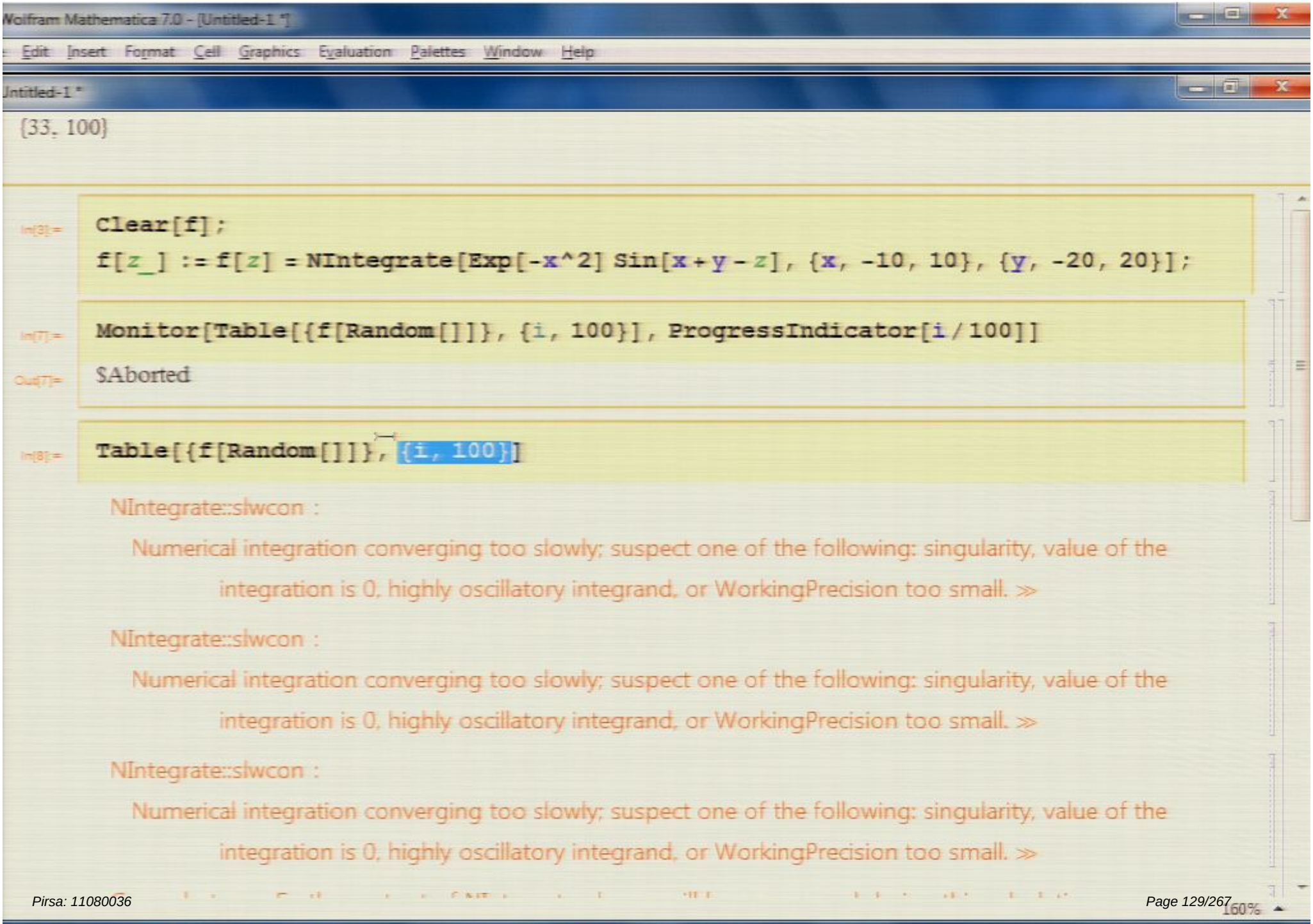
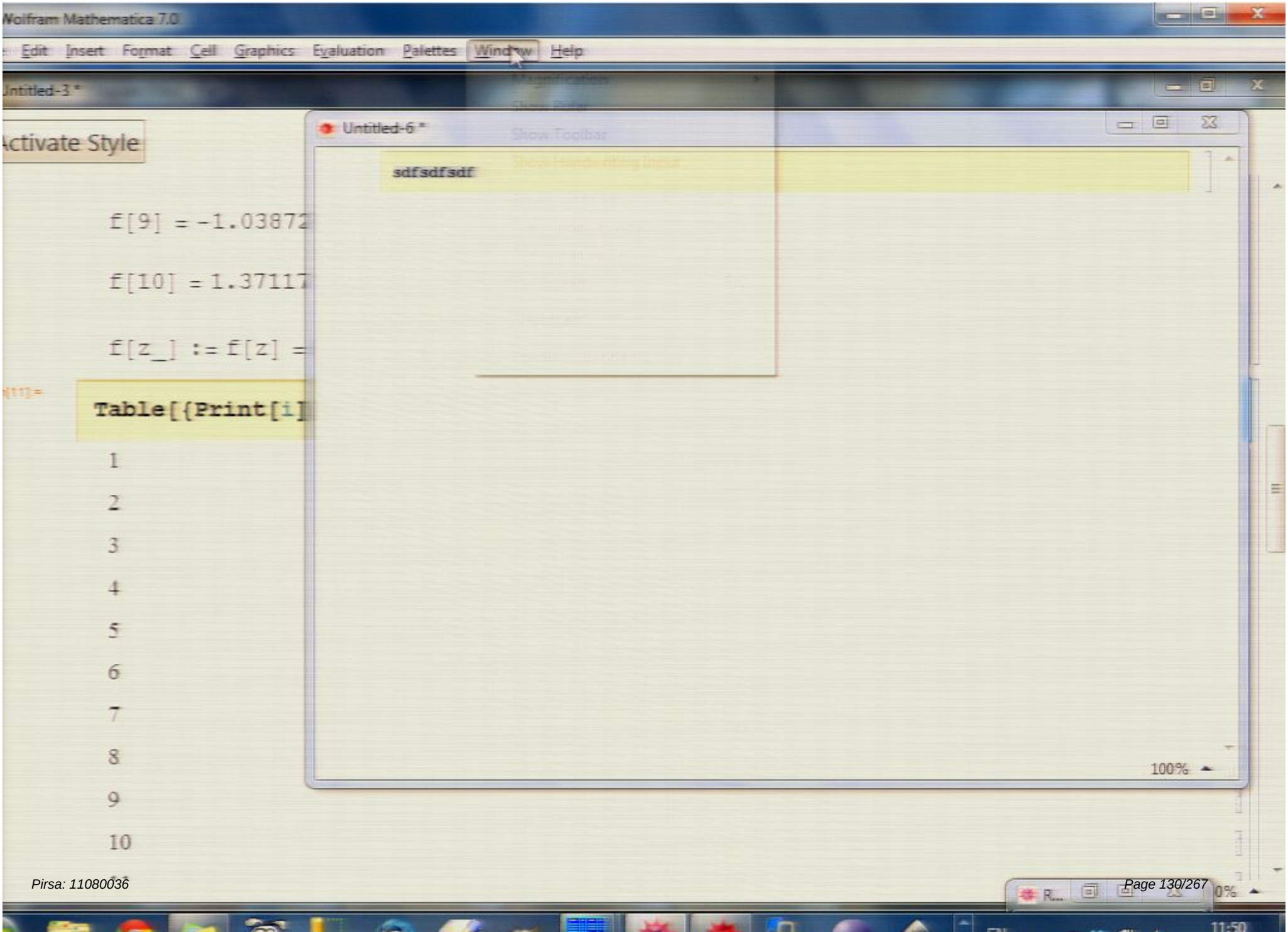
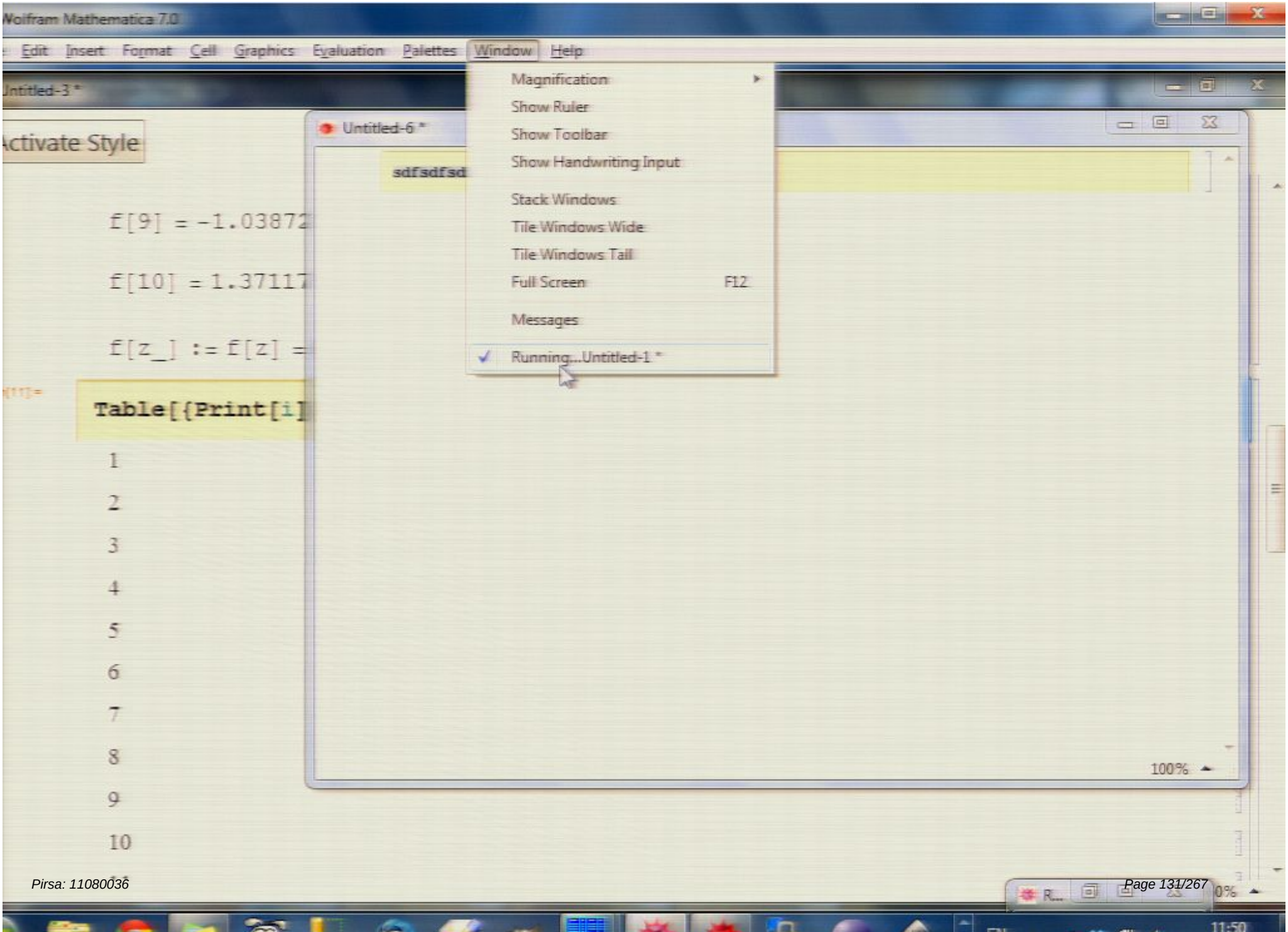
7
8
9
10
Untitled-6
Activate Style
100%
160%


Wolfram Mathematica 7.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Untitled-1 *
{33, 100}
In[3]:= Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
In[7]:= Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i/100]]
Out[7]= $Aborted
In[8]:= Table[{f[Random[]]}, {i, 100}]
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>
160%


Wolfram Mathematica 7.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Untitled-1 *
{33, 100}
In[3]:= Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
In[7]:= Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i/100]]
Out[7]= $Aborted
In[8]:= Table[{f[Random[]]}, {i, 100}]
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>
160%


Wolfram Mathematica 7.0
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Untitled-3 *
Activate Style
f[9] = -1.03872
f[10] = 1.37117
f[z_] := f[z] =
Table[{Print[i]
1
2
3
4
5
6
7
8
9
10
Untitled-6 *
sdfsdfsdf
100%


Wolfram Mathematica 7.0
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Magnification
Show Ruler
Show Toolbar
Show Handwriting Input
Stack Windows
Tile Windows Wide
Tile Windows Tall
Full Screen F12
Messages
Running...Untitled-1 *
Untitled-3 *
Activate Style
Untitled-6 *
sdfsdfsd
f[9] = -1.03872
f[10] = 1.37117
f[z_] := f[z] =
Table[{Print[i]
1
2
3
4
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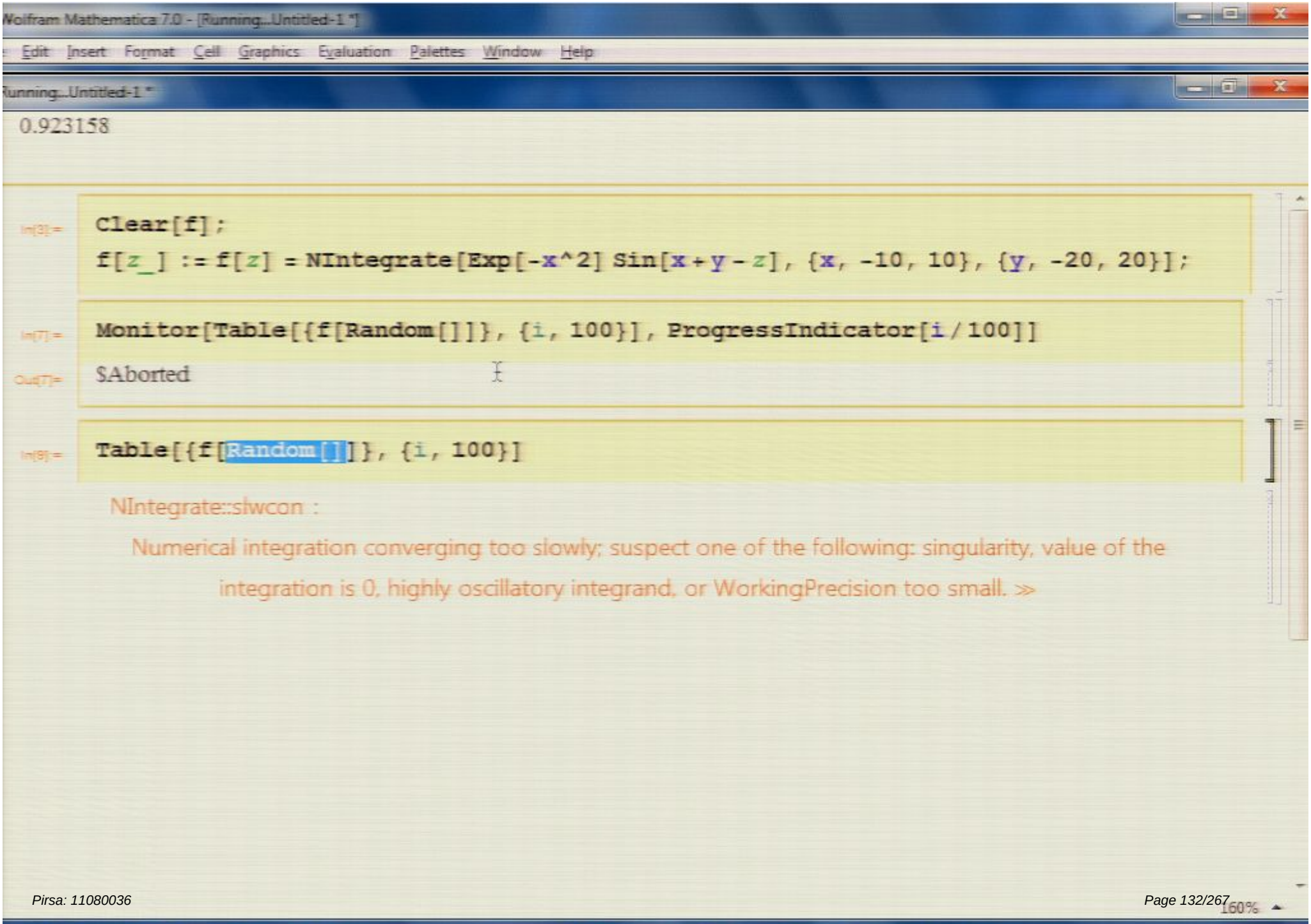
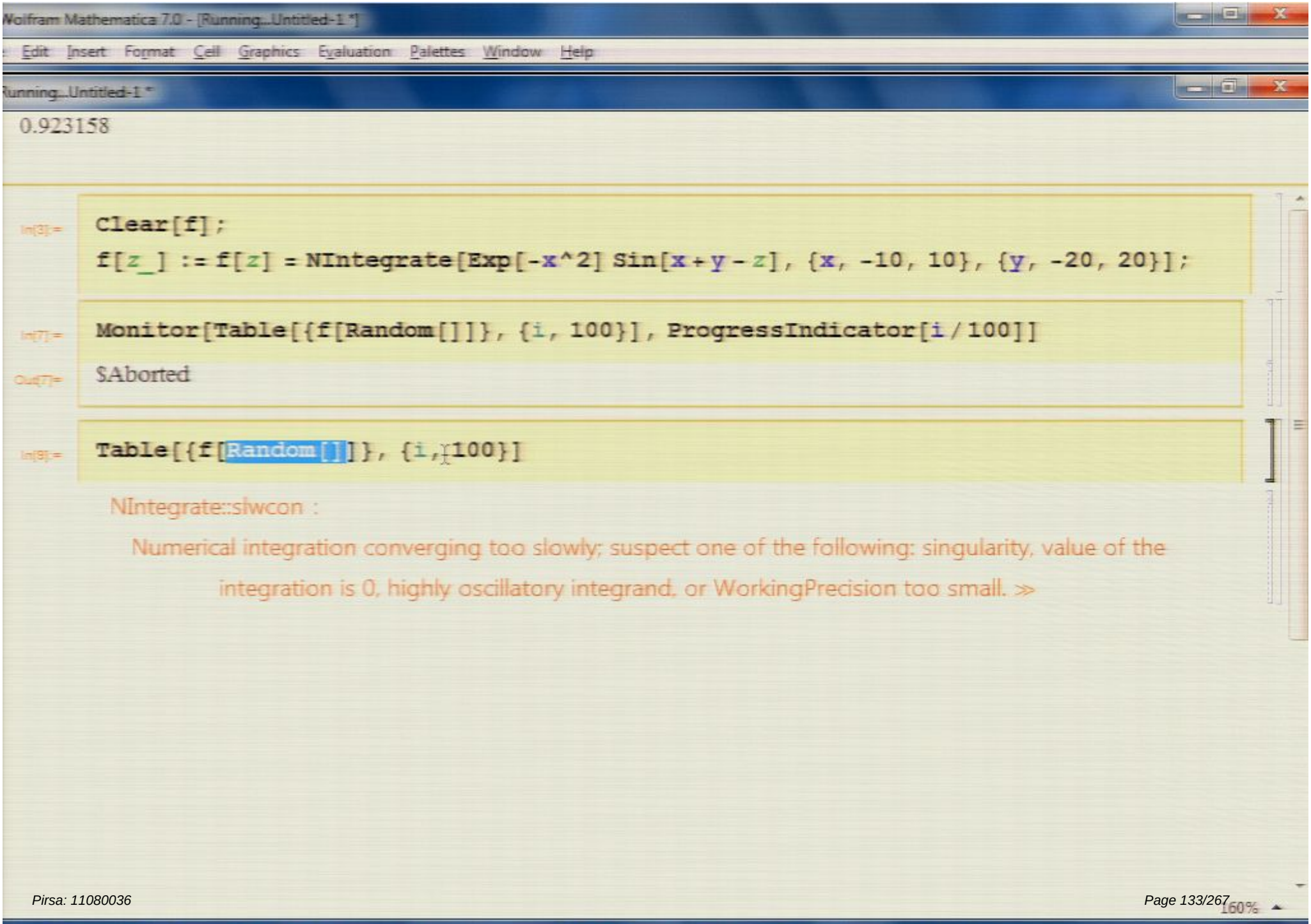
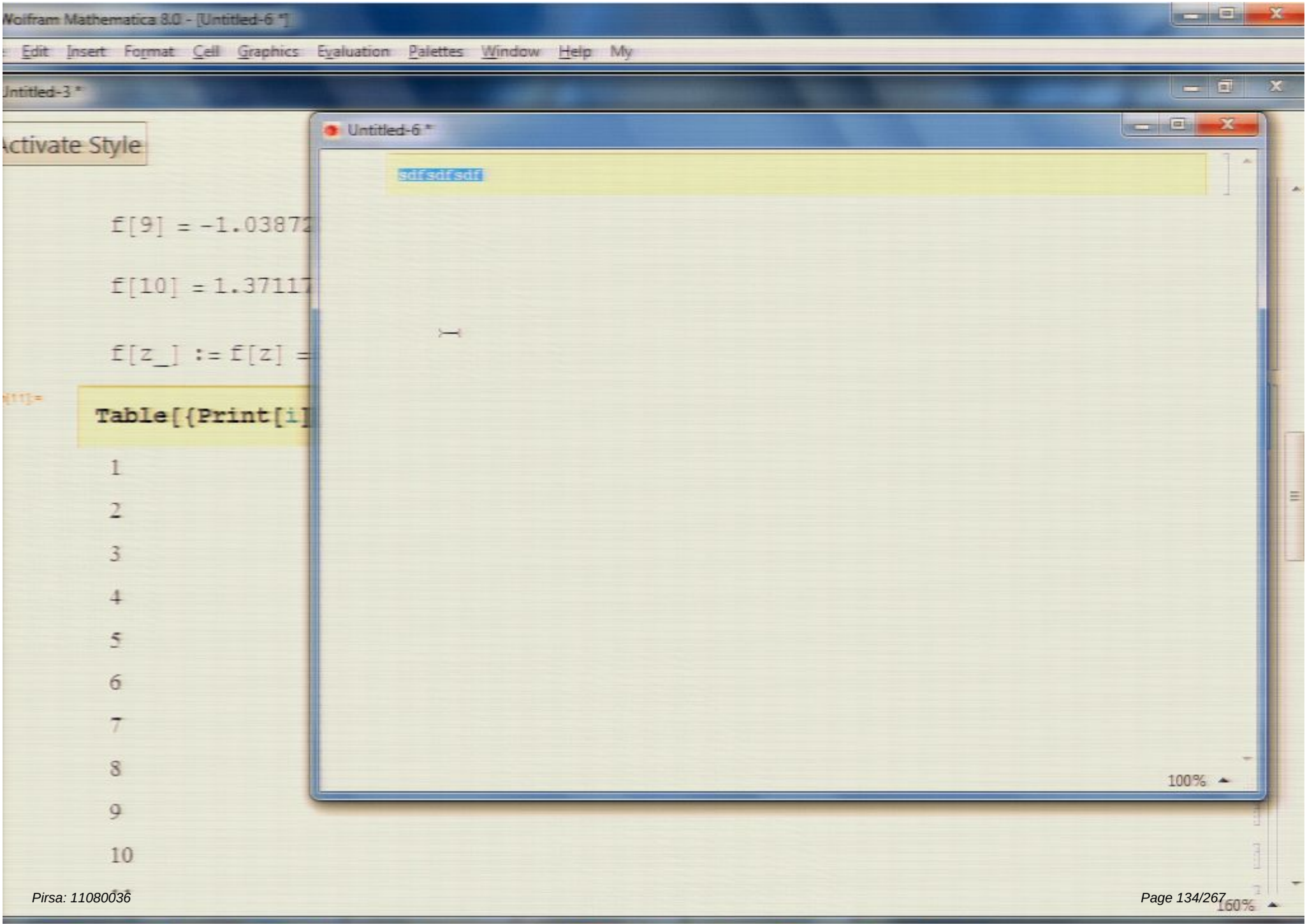
6
7
8
9
10
100%


Wolfram Mathematica 7.0 - [Running...Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Running...Untitled-1 *
0.923158
In[3]:= Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
In[7]:= Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i/100]]
Out[7]= $Aborted
In[9]:= Table[{f[Random[]]}, {i, 100}]
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>


Wolfram Mathematica 7.0 - [Running...Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Running...Untitled-1 *
0.923158
In[3]:=
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x+y-z], {x, -10, 10}, {y, -20, 20}];
In[7]:=
Monitor[Table[{f[Random[]]}, {i, 100}], ProgressIndicator[i/100]]
Out[7]=
$Aborted
In[9]:=
Table[{f[Random[]]}, {i, 100}]
NIntegrate::slwcon :
Numerical integration converging too slowly; suspect one of the following: singularity, value of the integration is 0, highly oscillatory integrand, or WorkingPrecision too small. >>


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-3 *
Activate Style
f[9] = -1.03872
f[10] = 1.37117
f[z_] := f[z] =
Table[{Print[i]
1
2
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Untitled-6 *
sdf sdf sdf
100%
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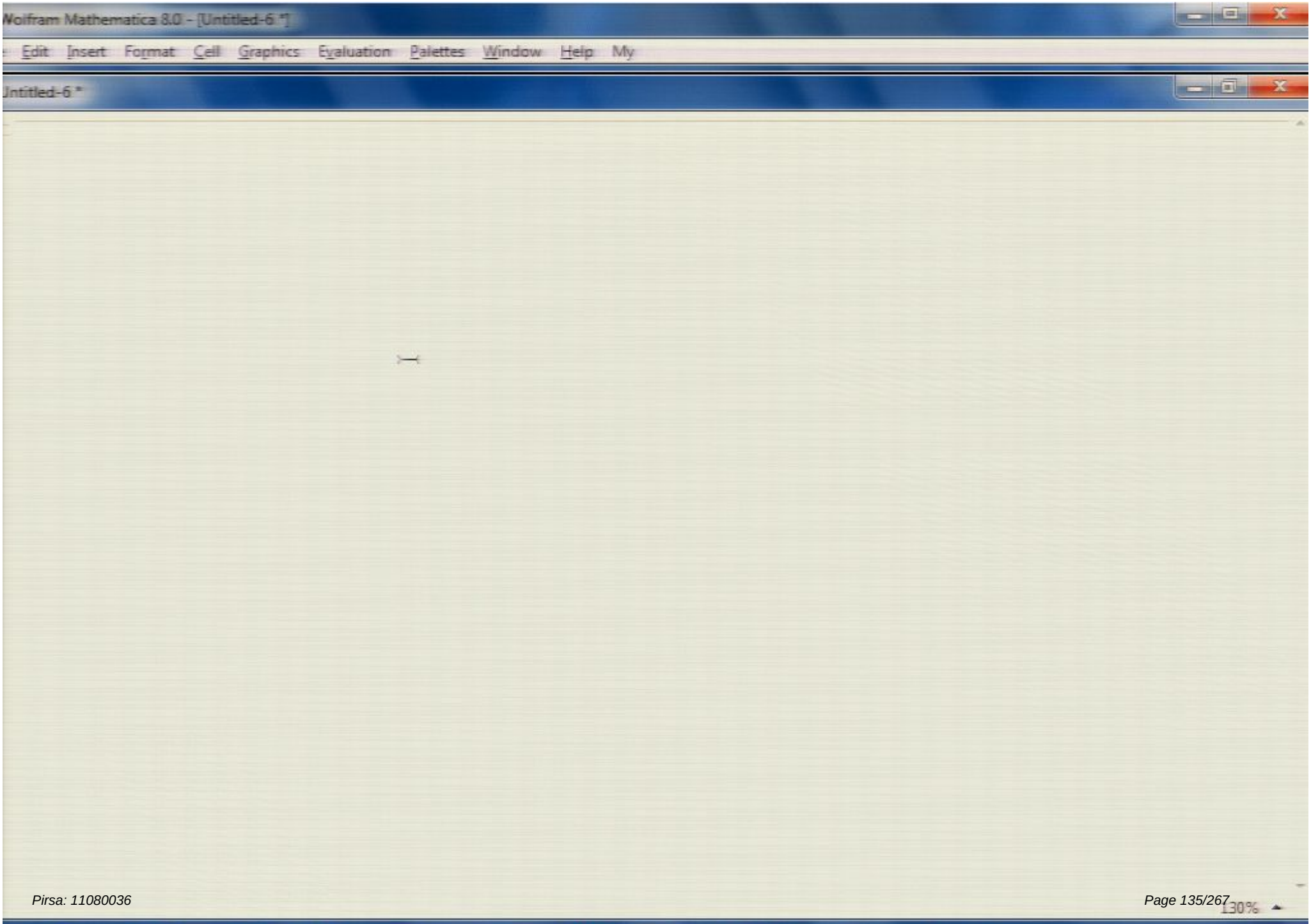
Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
130%

Wolfram Mathematica 8.0 - [Untitled-6 *]

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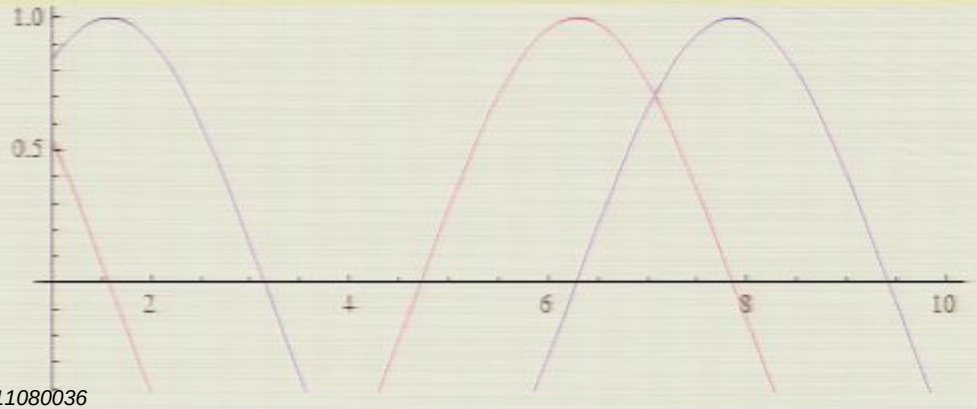
Untitled-6 *

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]]
```

$$\left\{\text{AlignmentPoint} \to \text{Center},\ \text{AspectRatio} \to \frac{1}{\phi},\ \text{Axes} \to \text{True},\ \text{AxesLabel} \to \text{None},\ \text{AxesOrigin} \to \text{Automatic},\ \text{AxesStyle} \to \{\},\right.$$

Background → None, BaselinePosition → Automatic, BaseStyle → {}, ClippingStyle → None, ColorFunction → Automatic, ColorFunctionScaling → True, ColorOutput → Automatic, ContentSelectable → Automatic, CoordinatesToolOptions → Automatic, DisplayFunction :→ $DisplayFunction, Epilog → {}, Evaluated → Automatic, EvaluationMonitor → None, Exclusions → Automatic, ExclusionsStyle → None, Filling → None, FillingStyle → Automatic, FormatType :→ TraditionalForm, Frame → False, FrameLabel → None, FrameStyle → {}, FrameTicks → Automatic, FrameTicksStyle → {}, GridLines → None, GridLinesStyle → {}, ImageMargins → 0., ImagePadding → All, ImageSize → Automatic, ImageSizeRaw → Automatic, LabelStyle → {}, MaxRecursion → Automatic, Mesh → None, MeshFunctions → {#1 &}, MeshShading → None, MeshStyle → Automatic, Method → Automatic, PerformanceGoal :→ $PerformanceGoal, PlotLabel → None, PlotPoints → Automatic, PlotRange → {Full, Automatic}, PlotRangeClipping → True, PlotRangePadding → Automatic, PlotRegion → Automatic, PlotStyle → Dashing[{0.05, 0.01}], PreserveImageOptions → Automatic, Prolog → {}, RegionFunction → (True &), RotateLabel → True, Ticks → Automatic, TicksStyle → {}, WorkingPrecision → MachinePrecision$\left.\right\}$

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```



Wolfram Mathematica 8.0 - [Untitled-6 *]

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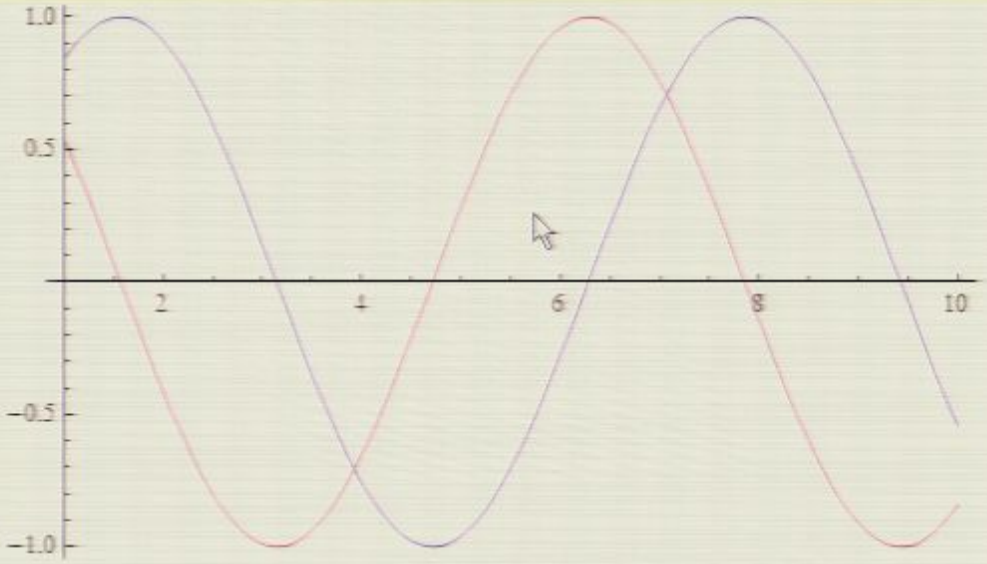
Untitled-6 *

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]]
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```



130%

Wolfram Mathematica 8.0 - [Untitled-6 *]

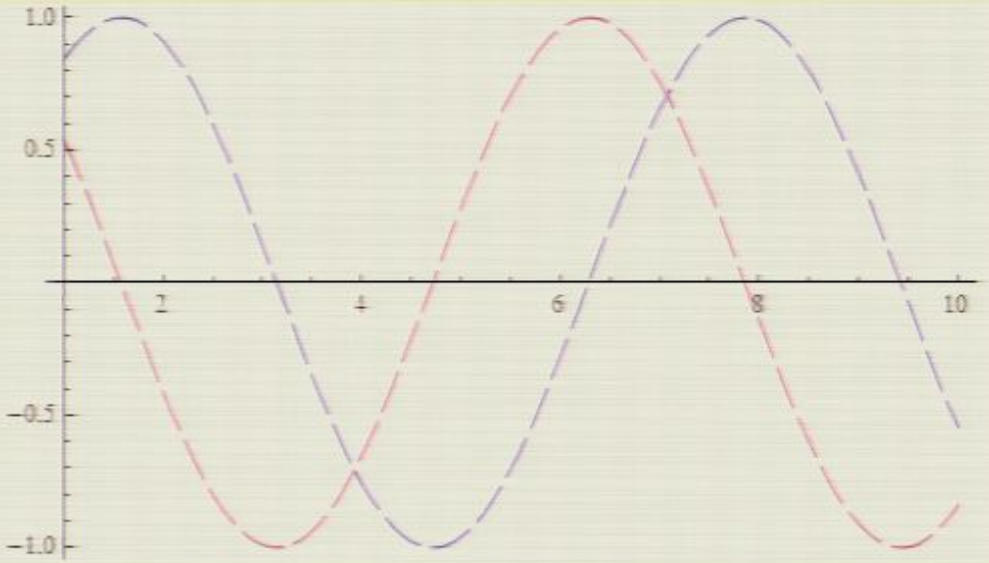
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```



130%

Wolfram Mathematica 8.0 - [Untitled-6 *]

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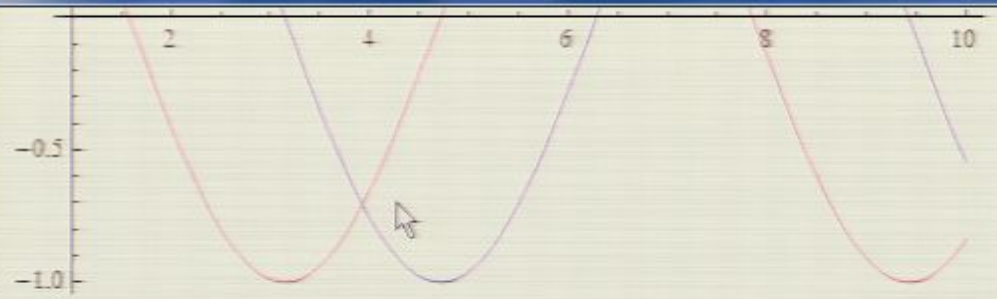
Untitled-6 *

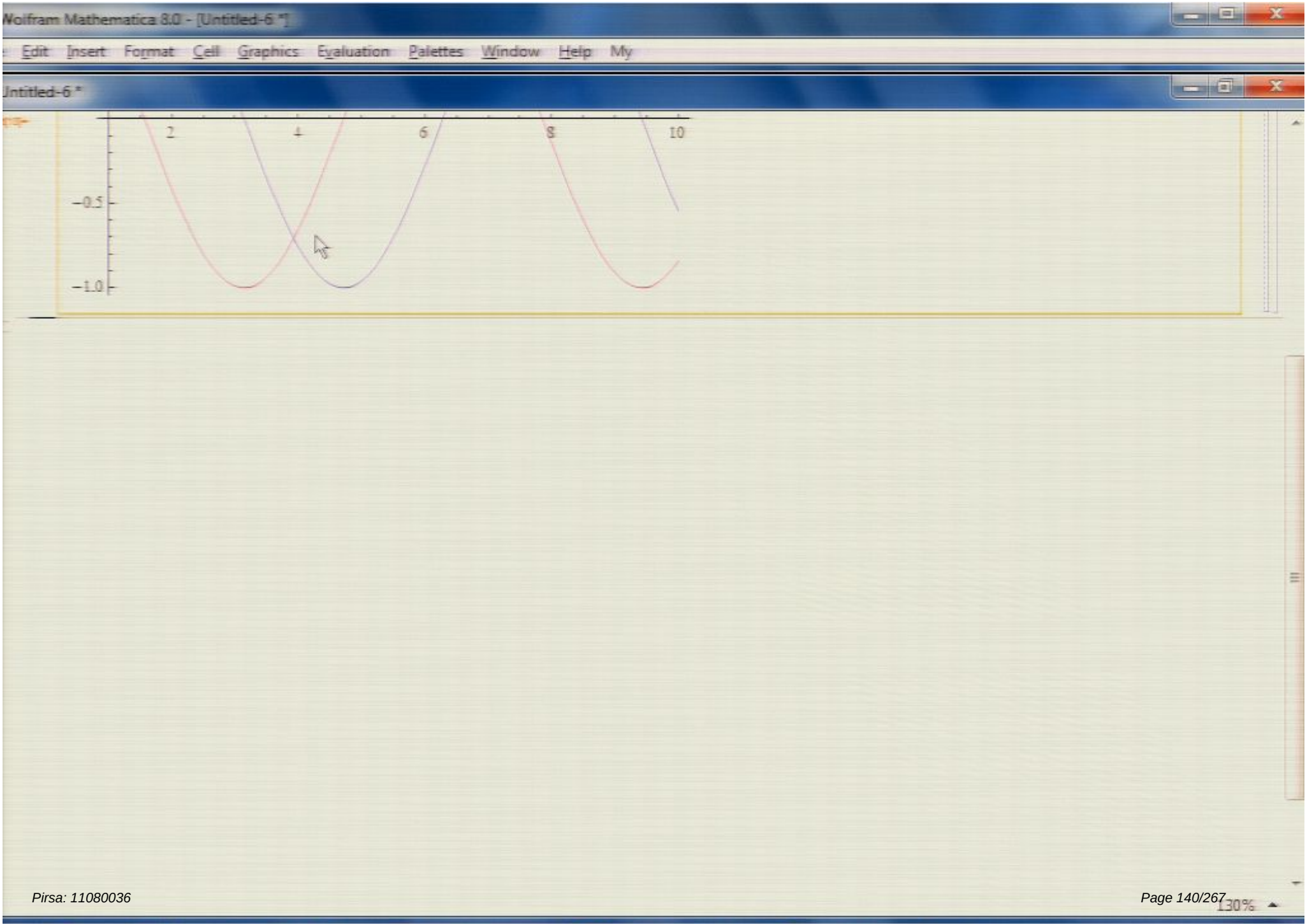



```
Options[Plot]
```

$$\{\text{AlignmentPoint} \to \text{Center}, \text{AspectRatio} \to \frac{1}{\phi}, \text{Axes} \to \text{True}, \text{AxesLabel} \to \text{None}, \text{AxesOrigin} \to \text{Automatic},$$

AxesStyle → {}, Background → None, BaselinePosition → Automatic, BaseStyle → {}, ClippingStyle → None,
ColorFunction → Automatic, ColorFunctionScaling → True, ColorOutput → Automatic, ContentSelectable → Automatic,
CoordinatesToolOptions → Automatic, DisplayFunction :→ $DisplayFunction, Epilog → {}, Evaluated → Automatic,
EvaluationMonitor → None, Exclusions → Automatic, ExclusionsStyle → None, Filling → None, FillingStyle → Automatic,
FormatType :→ TraditionalForm, Frame → False, FrameLabel → None, FrameStyle → {}, FrameTicks → Automatic,
FrameTicksStyle → {}, GridLines → None, GridLinesStyle → {}, ImageMargins → 0., ImagePadding → All, ImageSize → Automatic,
ImageSizeRaw → Automatic, LabelStyle → {}, MaxRecursion → Automatic, Mesh → None, MeshFunctions → {#1 &},
MeshShading → None, MeshStyle → Automatic, Method → Automatic, PerformanceGoal :→ $PerformanceGoal,
PlotLabel → None, PlotPoints → Automatic, PlotRange → {Full, Automatic}, PlotRangeClipping → True,
PlotRangePadding → Automatic, PlotRegion → Automatic, PlotStyle → Automatic, PreserveImageOptions → Automatic, Prolog → {},
RegionFunction → (True &), RotateLabel → True, Ticks → Automatic, TicksStyle → {}, WorkingPrecision → MachinePrecision$\}$

130%


Wolfram Mathematica 8.0 - [Untitled-6 *]
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Untitled-6 *
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−1.0

Wolfram Mathematica 8.0 - [Untitled-6 *]

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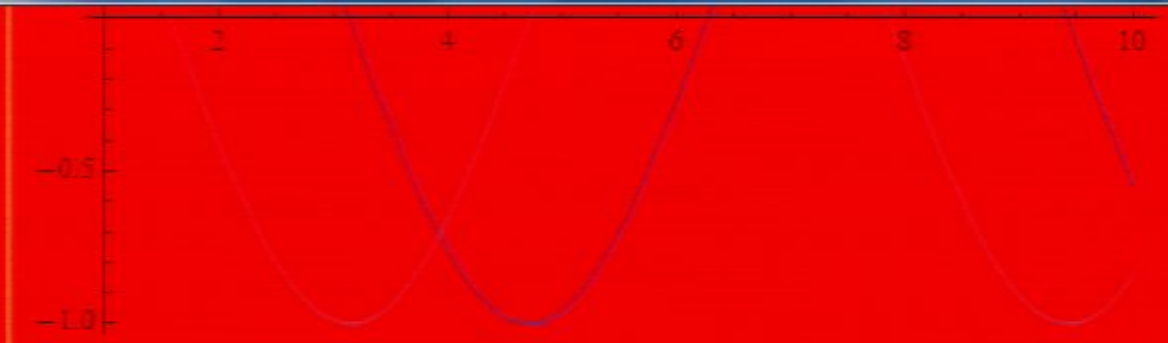
Untitled-6 *

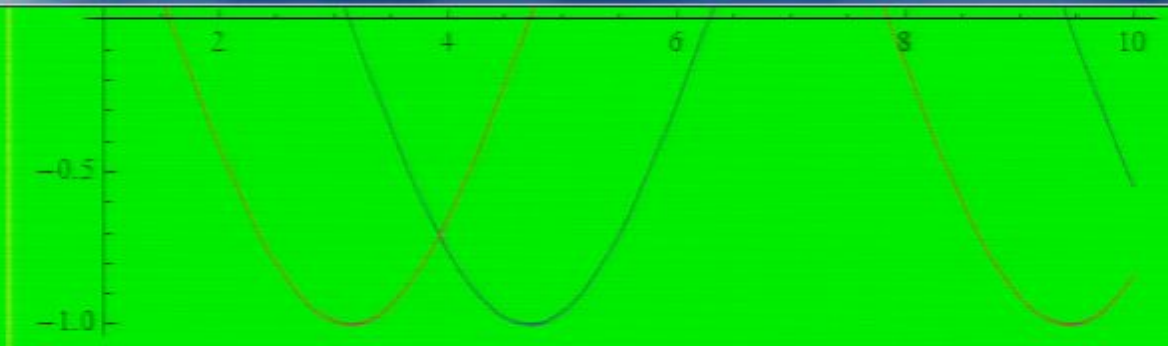



```
SetOptions[EvaluationNotebook[], Background → Red]
```

Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *




```
SetOptions[EvaluationNotebook[], Background → Green]
```


150%

Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *


```
SetOptions[EvaluationNotebook[], Background → Glye]
```

Messages

The specified setting for the option Background cannot be used.

The specified setting for the option Background cannot be used.

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Wolfram Mathematica 8.0 - [Untitled-6 *]

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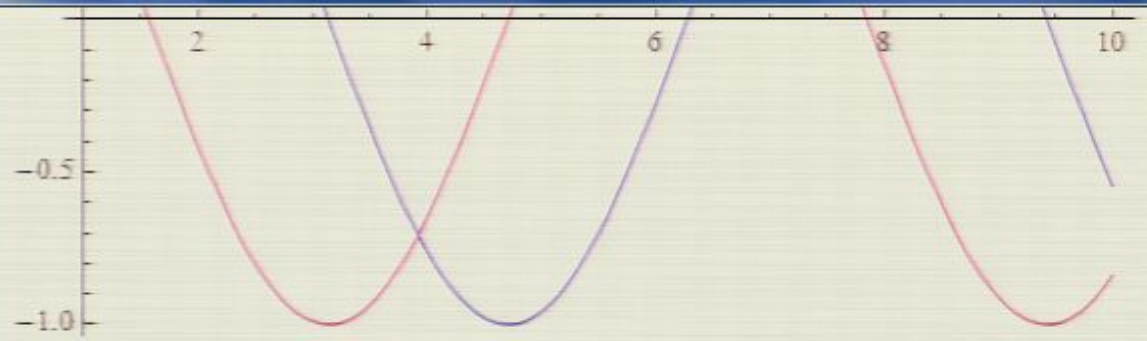
Untitled-6 *




```
SetOptions[EvaluationNotebook[], Background → Gl̲ye]
```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Wolfram Mathematica 8.0 - [Untitled-6 *]

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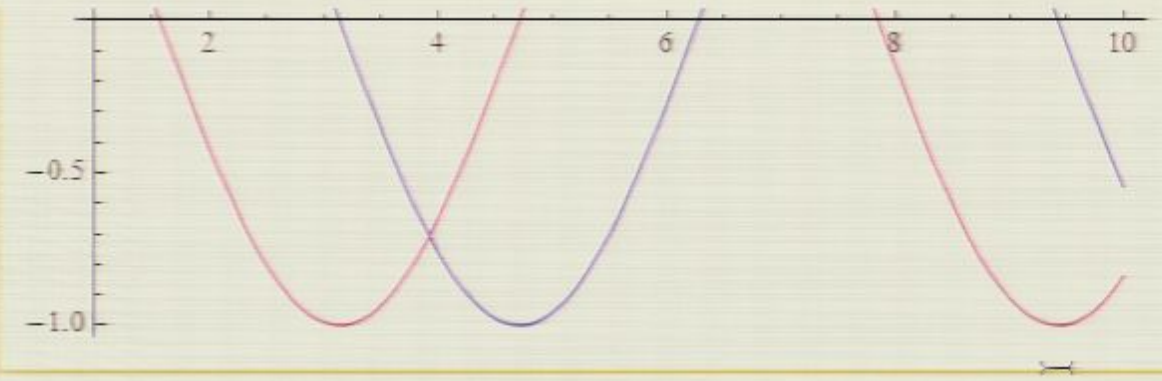
Untitled-6 *

123




```
SetOptions[EvaluationNotebook[], DockedCells → {Cell["1123"]}]
```


150%

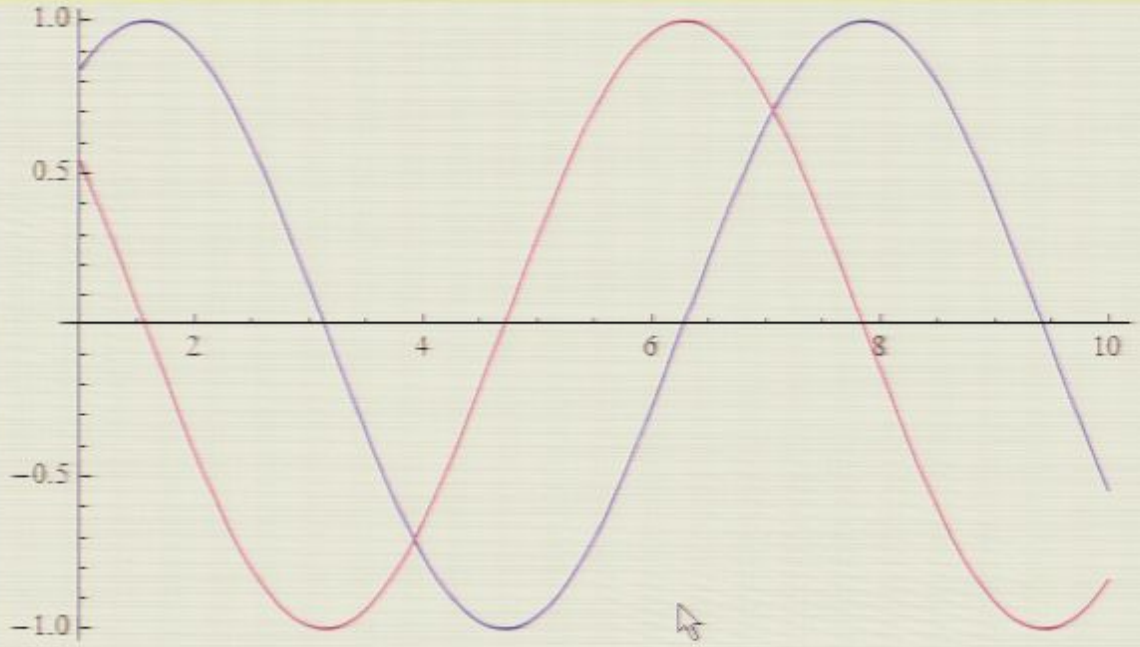
Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

123

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```




```
SetOptions[EvaluationNotebook[], DockedCells → {Cell["1123"]}]
```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Wolfram Mathematica 8.0 - [Untitled-6 *]

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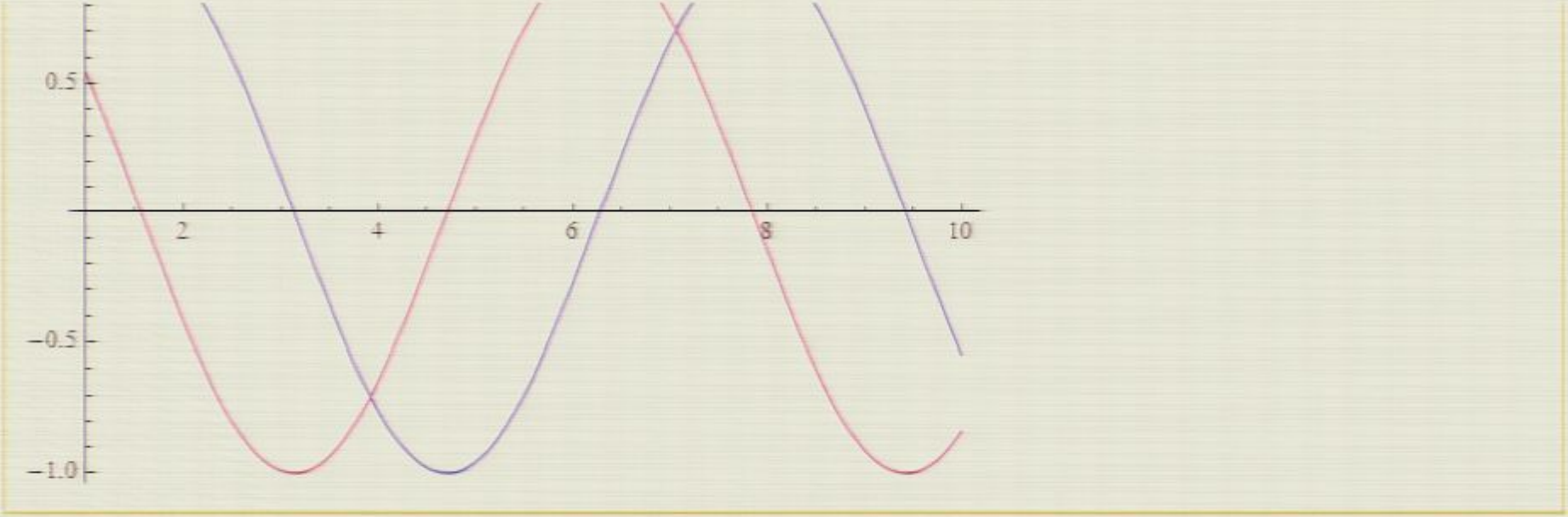
Untitled-6 *

123




```
Cell[BoxData[
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  RowBox[{
   RowBox[{"EvaluationNotebook", "[", "]"}], ",",
   RowBox[{"DockedCells", "\[Rule]",
    RowBox[{"{",
     RowBox[{"Cell", "[", "\"\<1123\>\"", "]"}], "}"}]}]}], "]"}]], "Input",
 CellChangeTimes->{{3.5216347213134604`*^9, 3.521634819312832*^9}}]
```


150%

eclipse

Wolfram Mathematica 8.0 - [Untitled-6 *]

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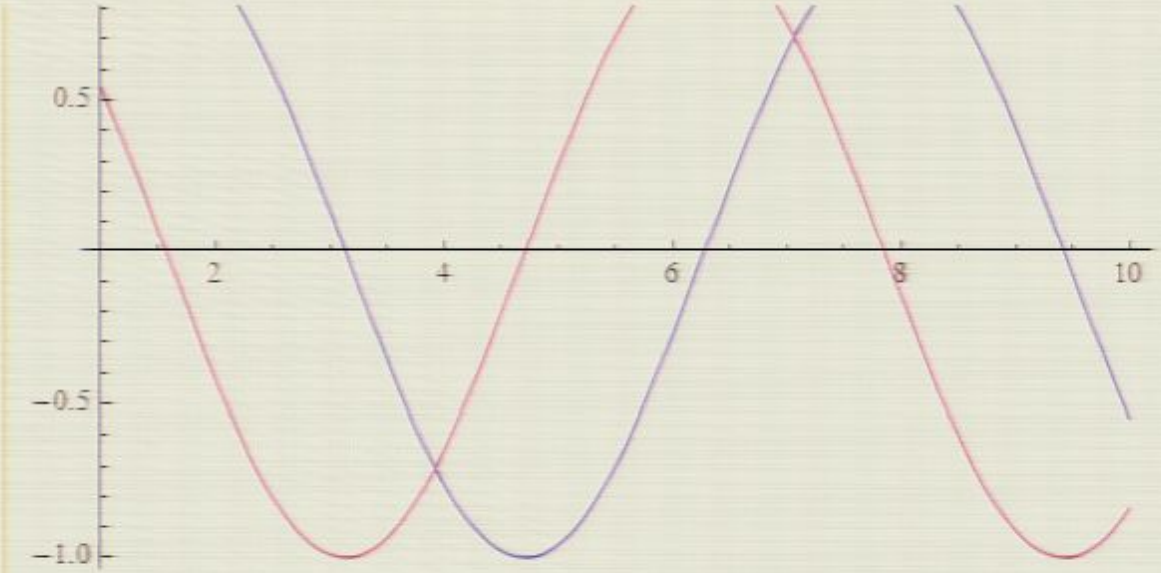
Untitled-6 *

123




```
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  RowBox[{
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    RowBox[{"{",
     RowBox[{"Cell", "[", "\"\<1123\>\""
CellChangeTimes->{{3.5216347213134604`*
```

```
]"}]], "Input",
*^9}}]
```


150%

Wolfram Mathematica 8.0 - [Untitled-6 *]

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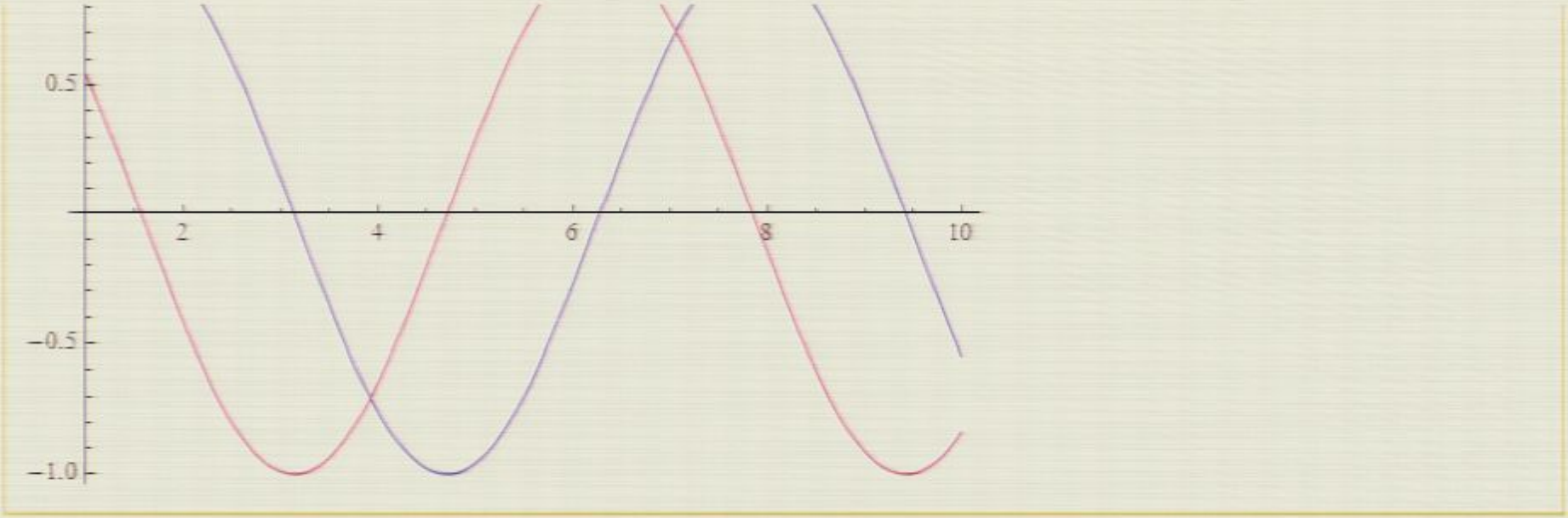
Untitled-6 *

123




```
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  RowBox[{
   RowBox[{"EvaluationNotebook", "[", "]"}], ",",
   RowBox[{"DockedCells", "\[Rule]",
    RowBox[{"{",
     RowBox[{"Cell", "[", "\"\<1123\>\"", "]"}], "}"}]}]}], "]"}]], "Input",
 CellChangeTimes->{{3.5216347213134604`*^9, 3.521634819312832*^9}}]
```

Wolfram Mathematica 8.0 - [Untitled-6 *]

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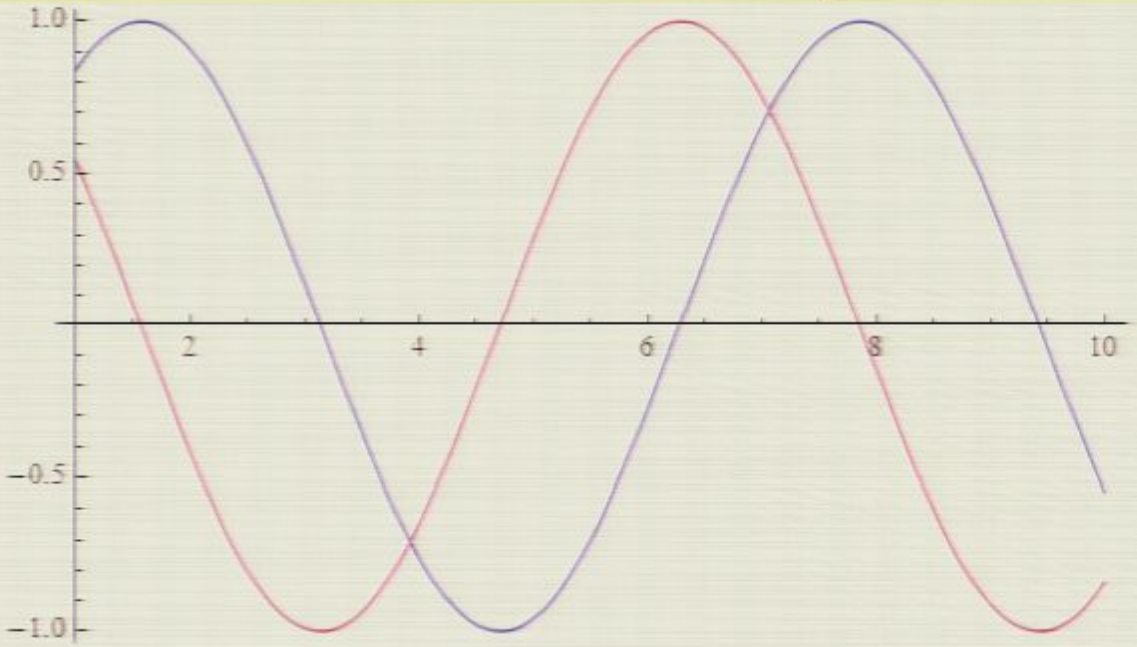
Untitled-6 *

123

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```




```
SetOptions[EvaluationNotebook[], DockedCells → {Cell["1123"]}]
```

Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

123

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
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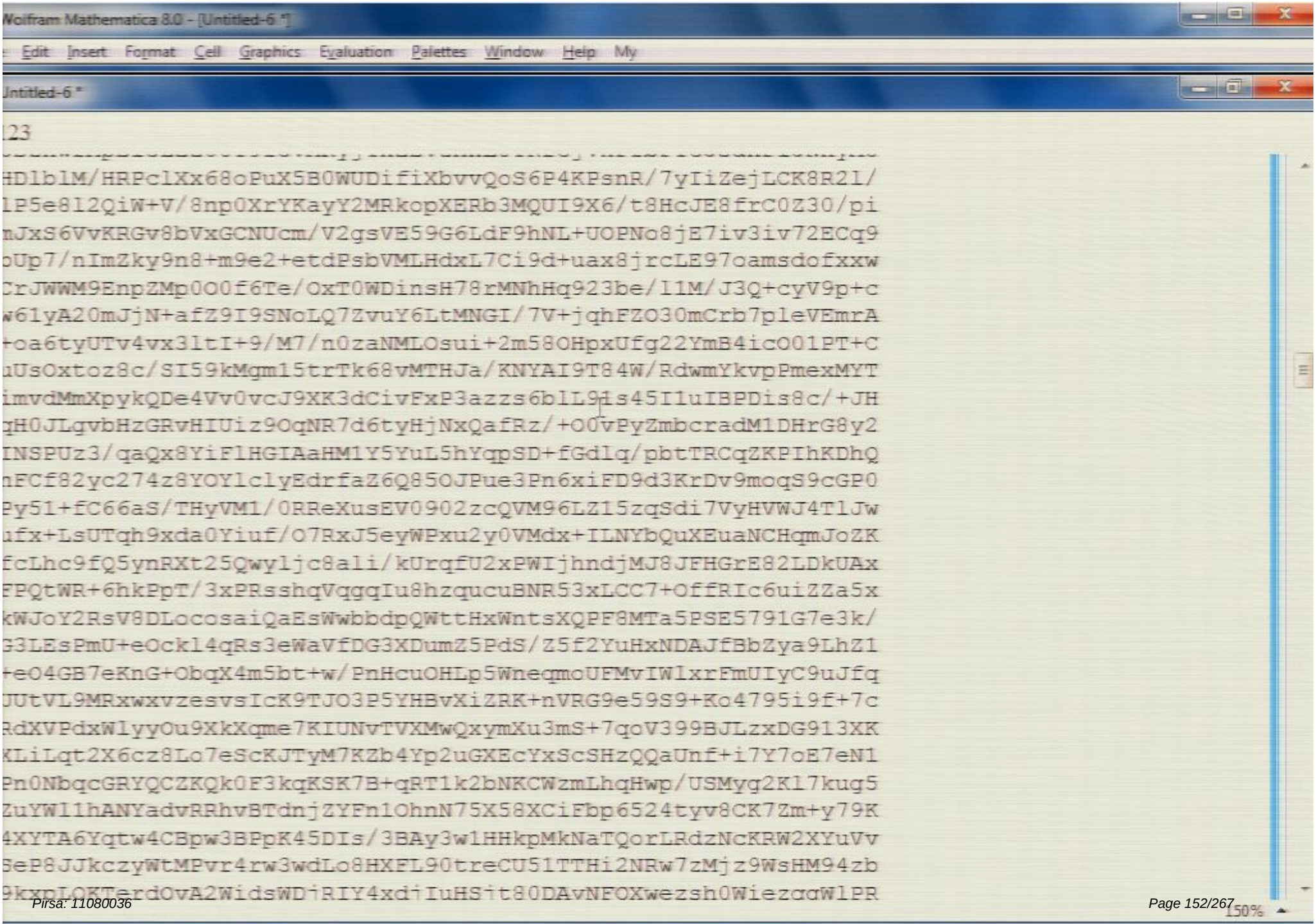
```


Wolfram Mathematica 8.0 - [Untitled-6 *]
File Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
123
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Page 152/267
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

123

```
SetOptions[Plot, PlotStyle → Automatic];

Plot[{Sin[x], Cos[x]}, {x, 1, 10}]

SetOptions[EvaluationNotebook[], DockedCells → {Cell["1123"]}]
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

123

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Cell[BoxData[
 RowBox[{"Plot", "[",
  RowBox[{
   RowBox[{"{",
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     RowBox[{"Sin", "[", "x", "]"}], ",",
     RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
   RowBox[{"{",
    RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]], "Input",
 CellChangeTimes->{{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]
```

```
SetOptions[EvaluationNotebook[], DockedCells → {Cell["1123"]}]
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

123

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Cell[BoxData[
 RowBox[{"Plot", "[",
  RowBox[{
   RowBox[{"{",
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     RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
   RowBox[{"{",
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 CellChangeTimes->{{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]
```

```
SetOptions[EvaluationNotebook[], DockedCells → {Cell["1123"]}]
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

123

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Cell[BoxData[
 RowBox[{"Plot", "[",
  RowBox[{
   RowBox[{"{",
    RowBox[{
     RowBox[{"Sin", "[", "x", "]"}], ",",
     RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
   RowBox[{"{",
    RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]], "Input",
 CellChangeTimes->{{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]
```

```
SetOptions[EvaluationNotebook[], DockedCells → {Cell["1123"]}]
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

123

```
RowBox[{"Plot", "[",
 RowBox[{
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    RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
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```

```
SetOptions[EvaluationNotebook[],
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         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
RowBox[{"Plot", "[",
 RowBox[{
  RowBox[{"{",
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  RowBox[{"{",
   RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]], "Input",
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```

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```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
RowBox[{"Plot", "[",
 RowBox[{
  RowBox[{"{",
   RowBox[{
    RowBox[{"Sin", "[", "x", "]"}], ",",
    RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
  RowBox[{"{",
   RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]}], "Input",
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```

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 DockedCells →
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         RowBox[{{"{", RowBox[{{"x", ",", "1", ",", "10"}}, "}"}}]}]}], "]"}]],
    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Cell[BoxData[
 RowBox[{"Plot", "[",
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     RowBox[{"Sin", "[", "x", "]"}], ",",
     RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
   RowBox[{"{",
    RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]], "Input",
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```

```
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  {Cell[
    BoxData[
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      RowBox[
       {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
SetOptions[Plot, PlotStyle → Automatic];
```

```
Cell[BoxData[
 RowBox[{"Plot", "[",
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     RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
   RowBox[{"{",
    RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]], "Input",
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```

```
SetOptions[EvaluationNotebook[],
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            RowBox[{{"Cos", "[", "x", "]"}}]}], "}"}], ",",
        RowBox[{"{", RowBox[{{"x", ",", "1", ",", "10"}}, "}"}]}], "]"}]],
    "Input", CellChangeTimes →
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
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    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```


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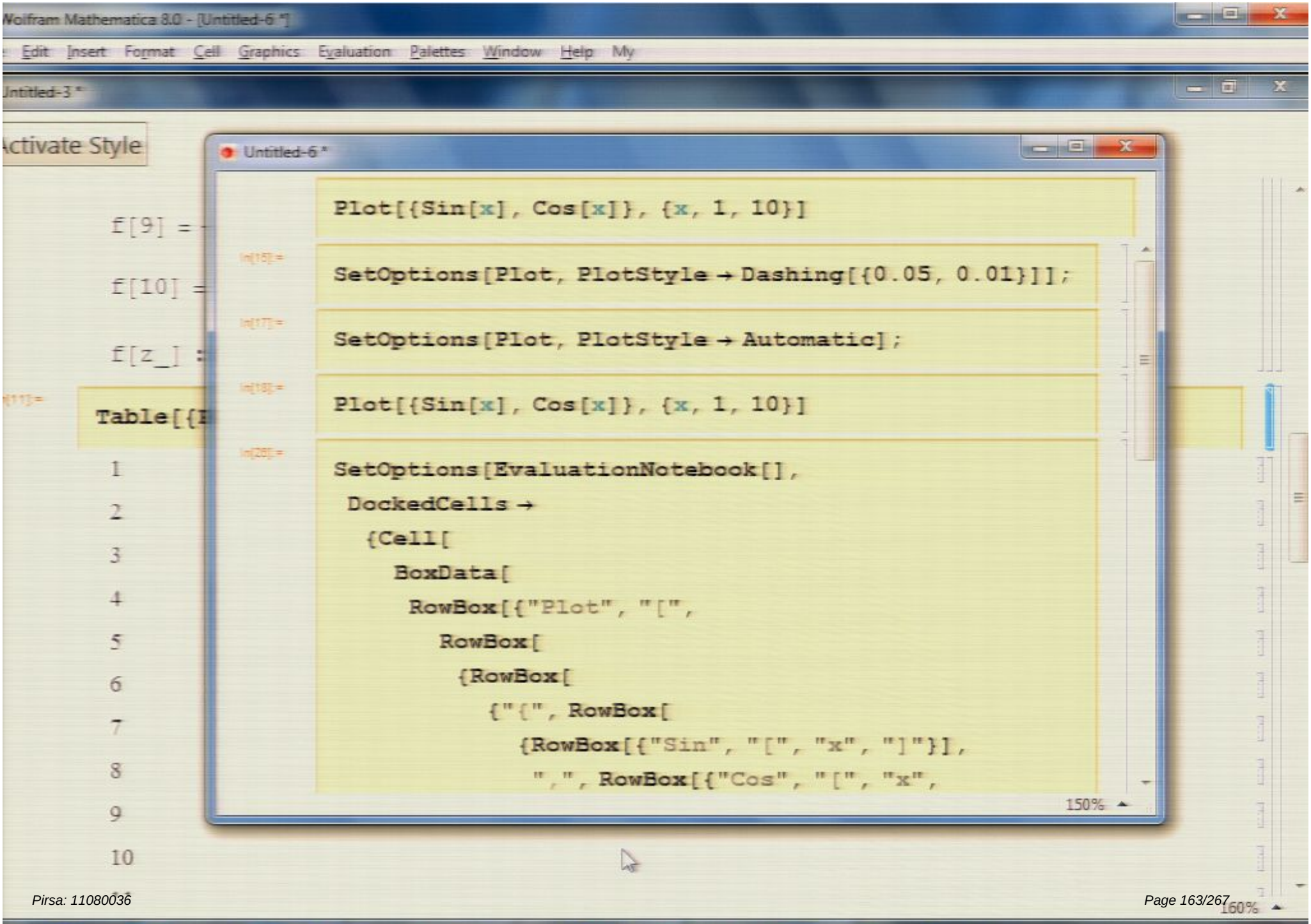
Wolfram Mathematica 8.0 - [Untitled-6 *]
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Untitled-3 *
Activate Style
Untitled-6 *
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
SetOptions[Plot, PlotStyle → Automatic];
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
SetOptions[EvaluationNotebook[],
DockedCells →
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RowBox[{"Plot", "[",
RowBox[
{RowBox[
{"{", RowBox[
{RowBox[{"Sin", "[", "x", "]"}],
",", RowBox[{"Cos", "[", "x",
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
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    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
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             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
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         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

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Button[_]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
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         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Button["x", 1]
```

x

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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
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         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Button["x",|1]
```

x

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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
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```

```
Button["x", P1]
```

x

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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
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    "Input", CellChangeTimes →
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```

```
Button["x", Print[1]]
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
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```

```
Button["x", Print[1]]
```

x

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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
 DockedCells →
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```

```
Button["x", Print[1]]
```

x

1

1

1

1

1

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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
 DockedCells →
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    "Input", CellChangeTimes →
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```

```
Button["x", Print[1]]
```

x

1

1

1

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1

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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
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             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
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```

```
Button["x", Print[1]]
```

x

1

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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Button["x", Print[1]]
```

x

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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Button["x", Print[1]]
```

x

Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    "Input", CellChangeTimes →
     {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
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Button["x", Print[1]]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
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             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
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Button["x", Print[1]]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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```
lot[{Sin[x], Cos[x]}, {x, 1, 10}]
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SetOptions[Plot, PlotStyle → Automatic];
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Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
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SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
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       RowBox[
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             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
   CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
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Button["x", Print[1]]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

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lot[{Sin[x], Cos[x]}, {x, 1, 10}]
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```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
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```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
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       RowBox[
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             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
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Button["x", Print[1]]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
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SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
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             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
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Button["x", Print[1]]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
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 DockedCells →
  {Cell[
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        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
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Button["x", Print[1]]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
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```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
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       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
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Button["x", Print[1]]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
lot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

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SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
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            RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
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    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

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Button["x", Print[1]]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
lot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
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             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Button["x", Print[1]]
```

x

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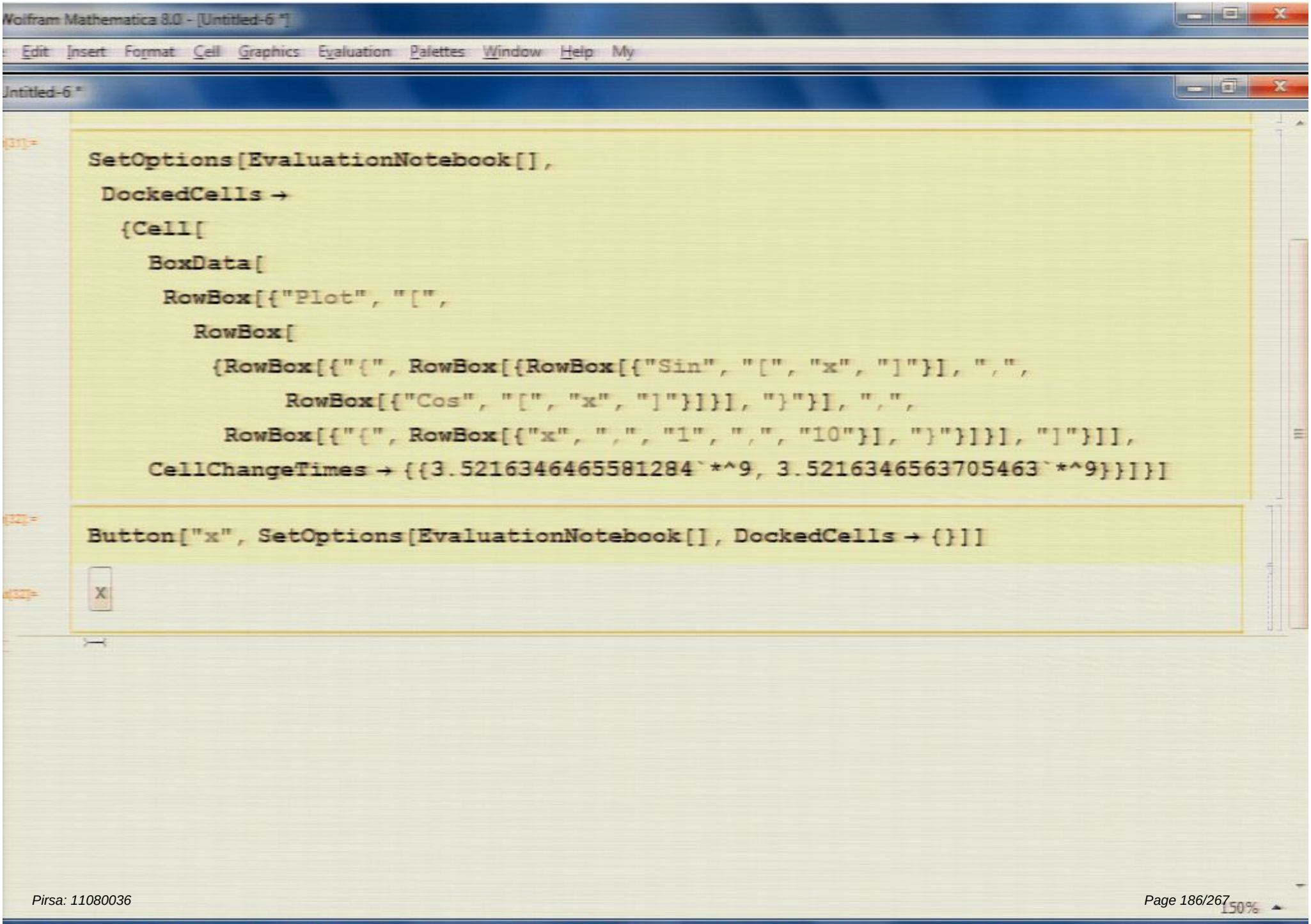
Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
SetOptions[EvaluationNotebook[],
DockedCells →
{Cell[
BoxData[
RowBox[{"Plot", "[",
RowBox[
{RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]]
x

Wolfram Mathematica 8.0 - [Untitled-6 *]

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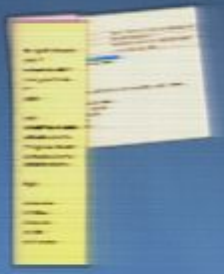
Untitled-6 *

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

x TEXT

Sticky Notes



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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

x TEXT

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Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

```
RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
  TagBox[GridBox[{
     {
      ButtonBox["\<\"x\"\>",
       Appearance->Automatic,
       ButtonFunction:>SetOptions[
         EvaluationNotebook[], DockedCells -> {}],
       Evaluator->Automatic,
       Method->"Preemptive"], "\<\"TEXT\"\>"}
    },
    AutoDelete->False,
    GridBoxItemSize->{"Columns" -> {{Automatic}}, "Rows" -> {{Automatic}}}],
   "Grid"], TraditionalForm]], "Output",
 CellChangeTimes->{{3.5216348931477613`*^9, 3.521634901883777*^9}, {
  3.521634945688654*^9, 3.5216349733475027`*^9}}]
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
  TagBox[GridBox[{
     {
      ButtonBox["\<\"x\"\>",
       Appearance->Automatic,
       ButtonFunction:>SetOptions[
         EvaluationNotebook[], DockedCells -> {}],
       Evaluator->Automatic,
       Method->"Preemptive"], "\<\"TEXT\"\>"}
    },
    AutoDelete->False,
    GridBoxItemSize->{"Columns" -> {{Automatic}}, "Rows" -> {{Automatic}}}],
   "Grid"], TraditionalForm]], "Output",
 CellChangeTimes->{{3.5216348931477613`*^9, 3.521634901883777*^9}, {
  3.5216349456886654*^9, 3.5216349733475027`*^9}}]
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

```
SetOptions[Plot, PlotStyle → Automatic],
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
            RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
  TagBox[GridBox[{
     {
      ButtonBox["\<\"x\"\>",
       Appearance->Automatic,
       ButtonFunction:>SetOptions[
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

```
SetOptions[Plot, PlotStyle → Automatic],
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
             RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
  TagBox[GridBox[{
     {
      ButtonBox["\<\"x\"\>",
       Appearance->Automatic,
       ButtonFunction:>SetOptions[
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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```
SetOptions[Plot, PlotStyle → Automatic],
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     RowBox[{"Plot", "[",
       RowBox[
        {RowBox[{"{", RowBox[{RowBox[{"Sin", "[", "x", "]"}], ",",
            RowBox[{"Cos", "[", "x", "]"}]}], "}"}], ",",
         RowBox[{"{", RowBox[{"x", ",", "1", ",", "10"}], "}"}]}], "]"}]],
    CellChangeTimes → {{3.5216346465581284`*^9, 3.5216346563705463`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
  TagBox[GridBox[{
     {
      ButtonBox["\<\"x\"\>",
       Appearance->Automatic,
       ButtonFunction:>SetOptions[
```


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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
SetOptions[Plot, PlotStyle → Automatic],

Plot[{Sin[x], Cos[x]}, {x, 1, 10}]

SetOptions[EvaluationNotebook[], DockedCells → {}]}]

Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
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     {
      ButtonBox["\<\"x\"\>",
       Appearance->Automatic,
       ButtonFunction:>SetOptions[
         EvaluationNotebook[], DockedCells -> {}],
       Evaluator->Automatic,
       Method->"Preemptive"], "\<\"TEXT\"\>"}
    },
    AutoDelete->False,
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  3.5216349456886654*^9, 3.5216349733475027`*^9}}]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

```
SetOptions[Plot, PlotStyle → Automatic],
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     FormBox[
      TagBox[
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
           ButtonFunction :→ SetOptions[EvaluationNotebook[], DockedCells → {}],
           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
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         {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
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      {3.521634945688654*^9, 3.5216349733475027`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
```

Wolfram Mathematica 8.0 - [Untitled-6 *]

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Untitled-6 *

x TEXT

```
SetOptions[Plot, PlotStyle → Automatic];

Plot[{Sin[x], Cos[x]}, {x, 1, 10}]

SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     FormBox[
      TagBox[
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
           ButtonFunction :→ SetOptions[EvaluationNotebook[], DockedCells → {}],
           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
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      {3.521634945688654*^9, 3.5216349733475027`*^9}}]}]

Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
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```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     FormBox[
      TagBox[
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
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        AutoDelete → False, GridBoxItemSize →
         {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
      TraditionalForm]], "Output",
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      {3.521634945688654*^9, 3.5216349733475027`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
```

Wolfram Mathematica 8.0 - [Untitled-6 *]

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"TEXT"

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
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       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
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           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
        AutoDelete → False, GridBoxItemSize →
         {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
      TraditionalForm]],
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```

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Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
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Wolfram Mathematica 8.0 - [Untitled-6 *]

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```
SetOptions[Plot, PlotStyle → Automatic],
```

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Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     FormBox[
      TagBox[
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
           ButtonFunction :→ SetOptions[EvaluationNotebook[], DockedCells → {}],
           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
        AutoDelete → False, GridBoxItemSize →
         {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
      TraditionalForm]],
    CellChangeTimes → {{3.5216348931477613`*^9, 3.521634901883777*^9},
      {3.521634945688654*^9, 3.5216349733475027`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
```

Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

"TEXT"

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     FormBox[
      TagBox[
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
           ButtonFunction :→ SetOptions[EvaluationNotebook[], DockedCells → {}],
           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
        AutoDelete → False, GridBoxItemSize →
         {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
      TraditionalForm]],
    CellChangeTimes → {{3.5216348931477613`*^9, 3.521634901883777*^9},
      {3.521634945688654*^9, 3.5216349733475027`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```


150%

Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

```
SetOptions[Plot, PlotStyle → Automatic];
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     FormBox[
      TagBox[
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
           ButtonFunction :→ SetOptions[EvaluationNotebook[], DockedCells → {}],
           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
        AutoDelete → False, GridBoxItemSize →
         {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
      TraditionalForm]],
    CellChangeTimes → {{3.5216348931477613`*^9, 3.521634901883777*^9},
      {3.521634945688654*^9, 3.5216349733475027`*^9}}]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
```

Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

```
SetOptions[Plot, PlotStyle → Automatic],
```

```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     FormBox[
      TagBox[
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
           ButtonFunction :→ SetOptions[EvaluationNotebook[], DockedCells → {}],
           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
        AutoDelete → False, GridBoxItemSize →
         {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
       TraditionalForm]]]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

```
Cell[BoxData[
 FormBox[
  TagBox[GridBox[{
     {
```


150%

11:57

Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

```
{Cell[
  BoxData[
   FormBox[
    TagBox[
     GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
         ButtonFunction :↦ SetOptions[EvaluationNotebook[], DockedCells → {}],
         Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
      AutoDelete → False, GridBoxItemSize →
       {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
    TraditionalForm]]]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```


150%

11:57

Wolfram Mathematica 8.0 - [Untitled-6 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-6 *

"TEXT"

```
SetOptions[Plot, PlotStyle → Dashing[{0.05, 0.01}]];
```

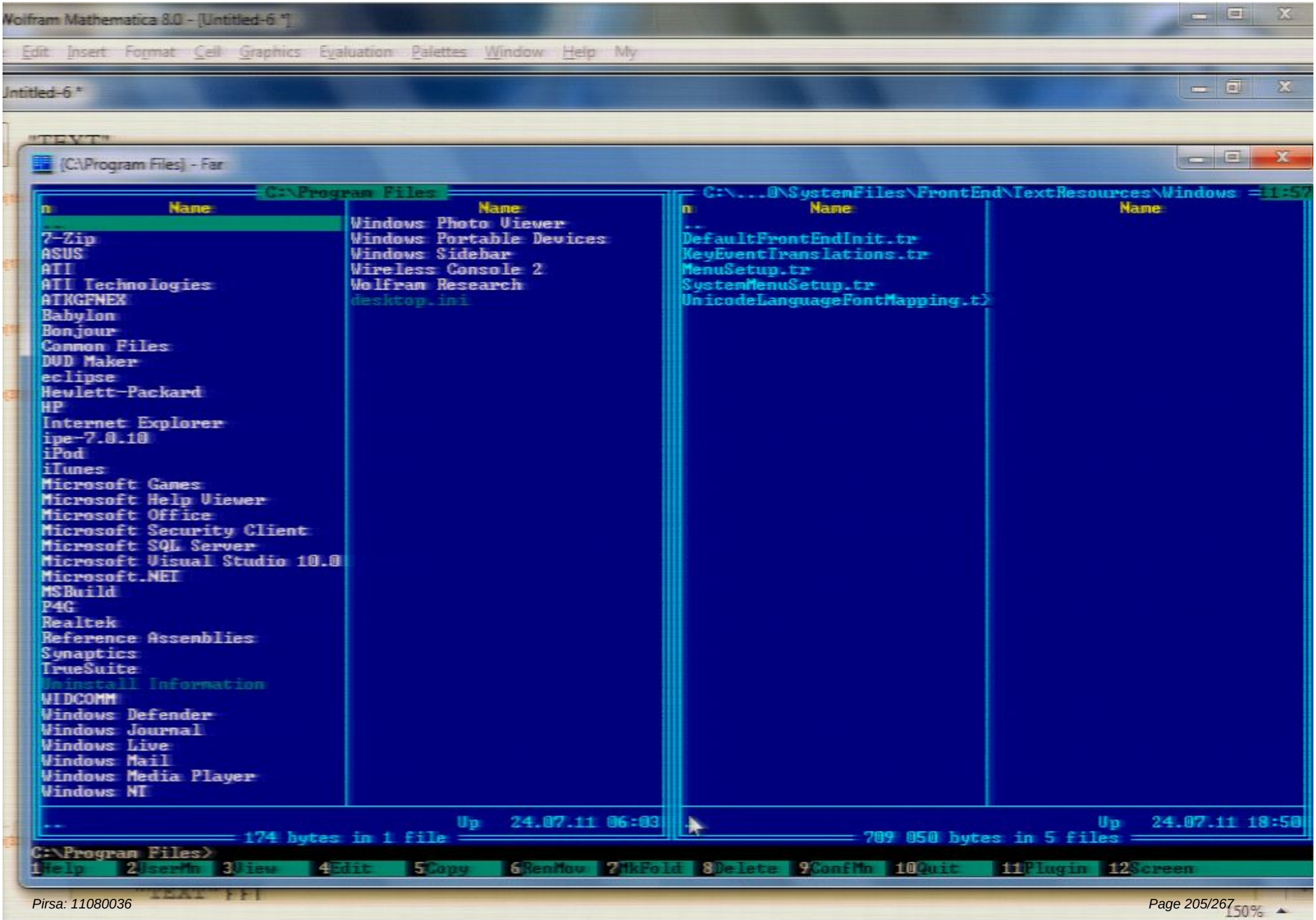
```
SetOptions[Plot, PlotStyle → Automatic];
```

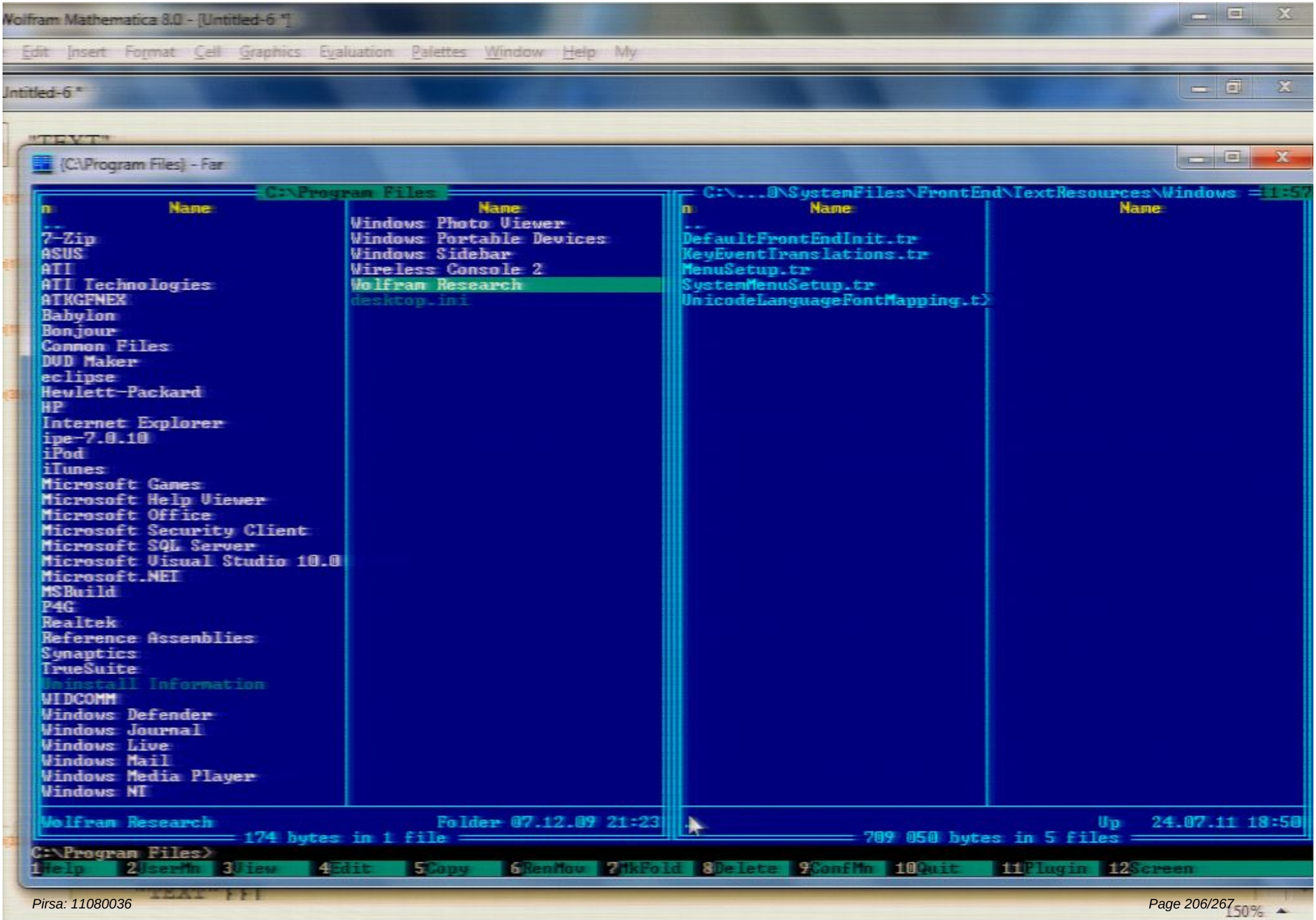
```
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
```

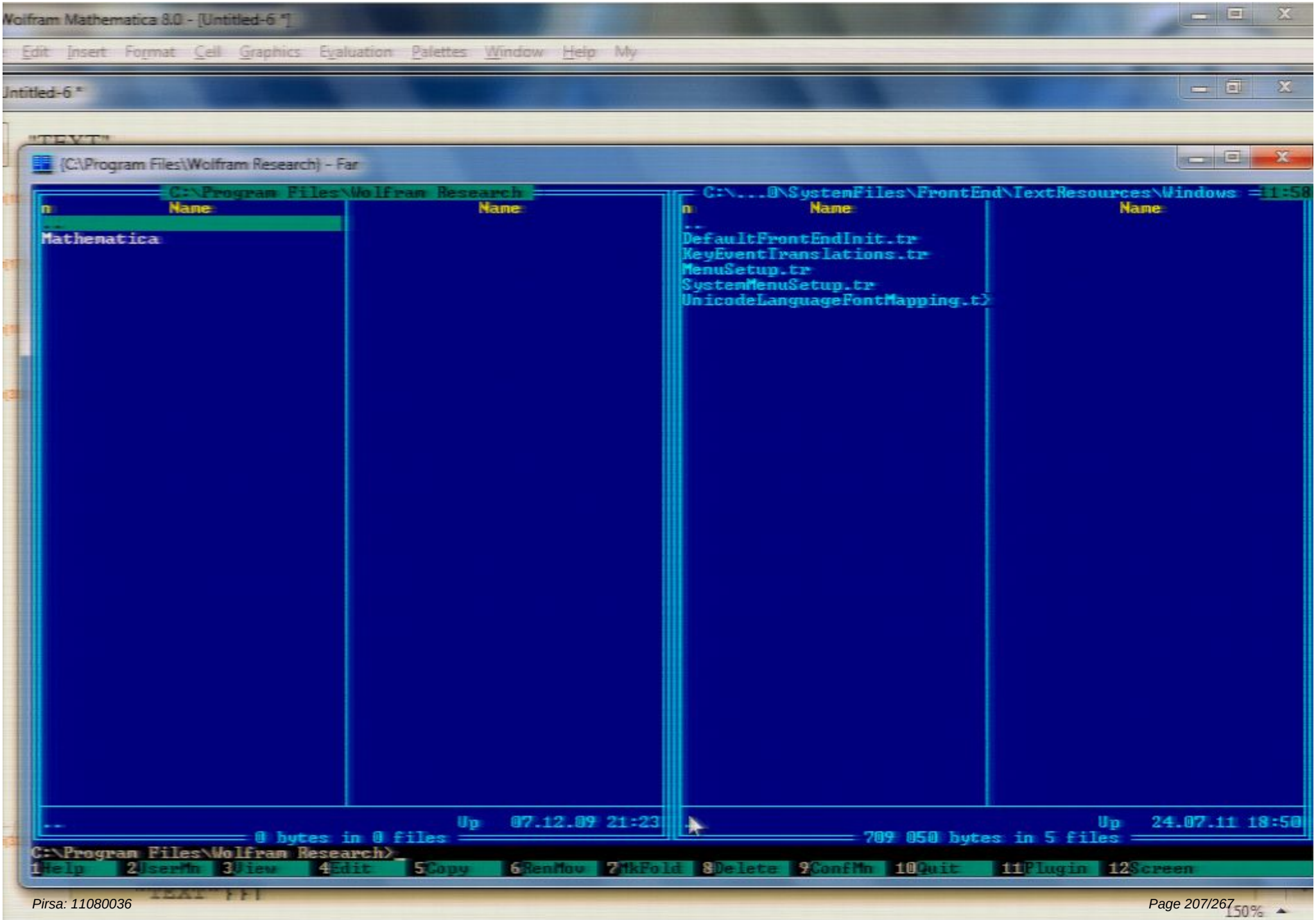
```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     FormBox[
      TagBox[
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
           ButtonFunction :> SetOptions[EvaluationNotebook[], DockedCells → {}],
           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
        AutoDelete → False, GridBoxItemSize →
         {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
      TraditionalForm]]]}]
```

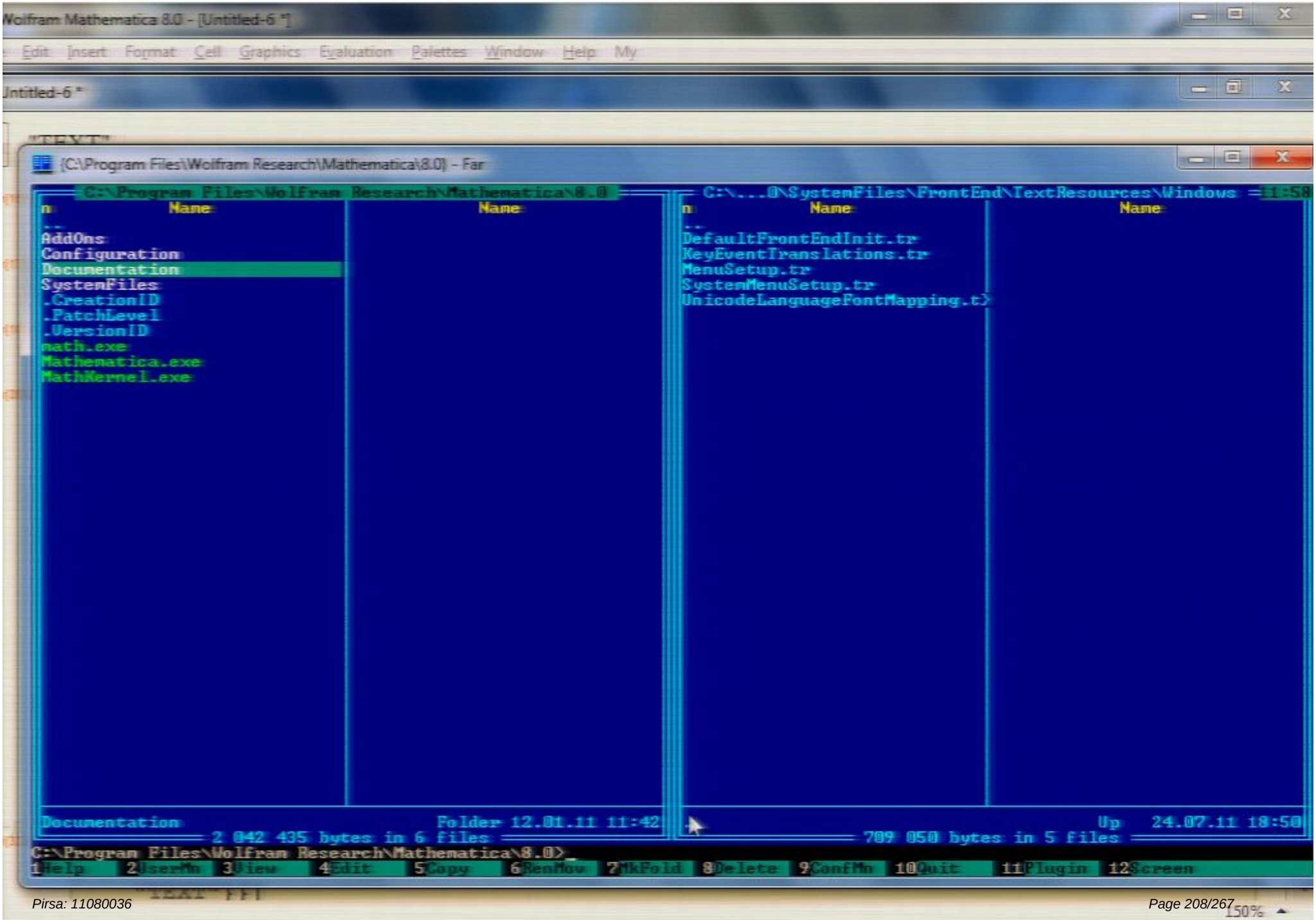
```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```

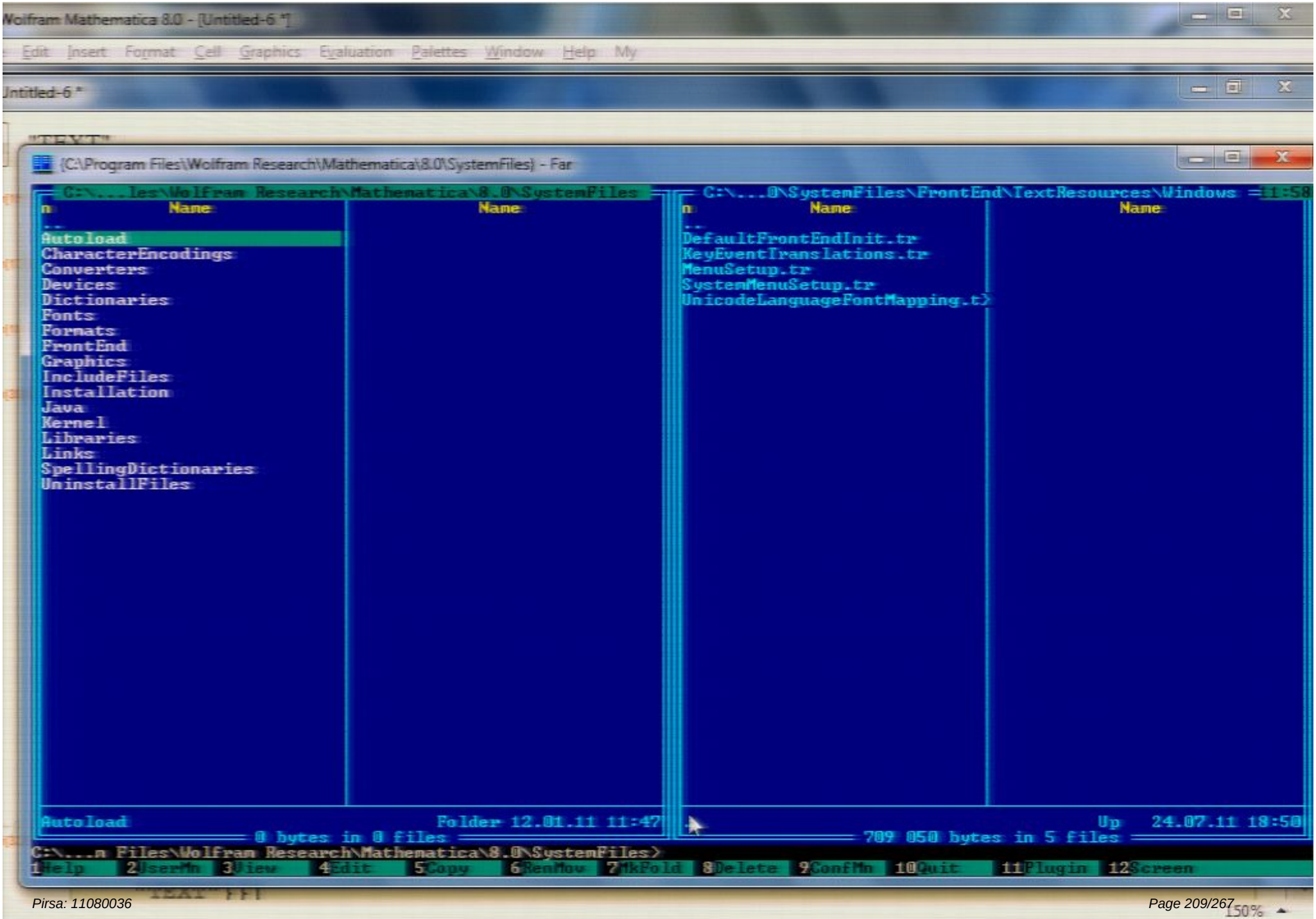

150%

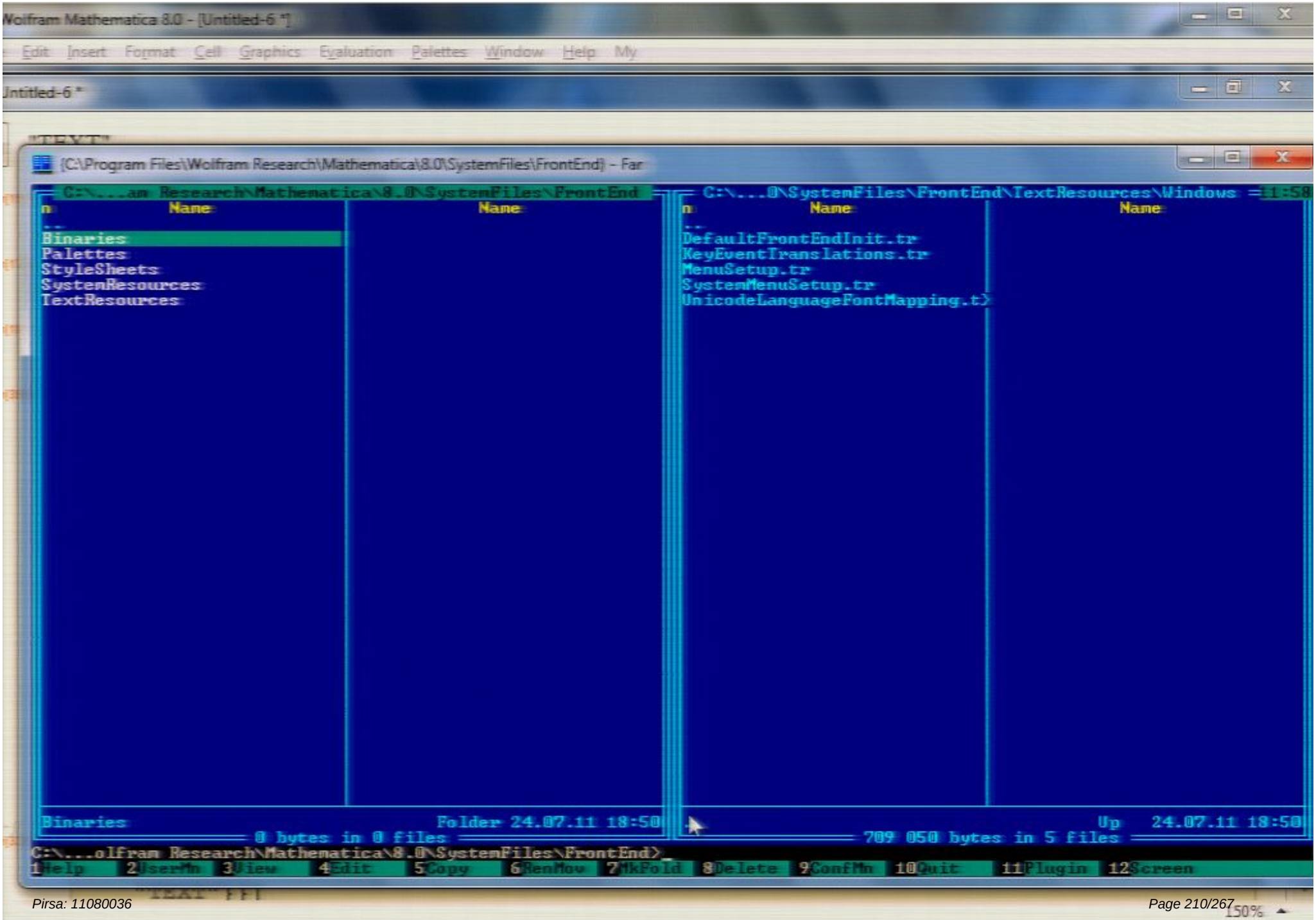

Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
(C:\Program Files) - Far
C:\Program Files
n Name
Name
..
7-Zip
ASUS
ATI
ATI Technologies
ATKGFNEX
Babylon
Bonjour
Common Files
DVD Maker
eclipse
Hewlett-Packard
HP
Internet Explorer
ipe-7.0.10
iPod
iTunes
Microsoft Games
Microsoft Help Viewer
Microsoft Office
Microsoft Security Client
Microsoft SQL Server
Microsoft Visual Studio 10.0
Microsoft.NET
MSBuild
P4G
Realtek
Reference Assemblies
Synaptics
TrueSuite
Uninstall Information
WIDCOMM
Windows Defender
Windows Journal
Windows Live
Windows Mail
Windows Media Player
Windows NT
Windows Photo Viewer
Windows Portable Devices
Windows Sidebar
Wireless Console 2
Wolfram Research
desktop.ini
Up 24.07.11 06:03
174 bytes in 1 file
C:\...0\SystemFiles\FrontEnd\TextResources\Windows
n Name
Name
..
DefaultFrontEndInit.tr
KeyEventTranslations.tr
MenuSetup.tr
SystemMenuSetup.tr
UnicodeLanguageFontMapping.t
Up 24.07.11 18:50
709 050 bytes in 5 files
C:\Program Files>
1Help 2UserMn 3View 4Edit 5Copy 6RenMov 7MkFold 8Delete 9ConfMn 10Quit 11Plugin 12Screen

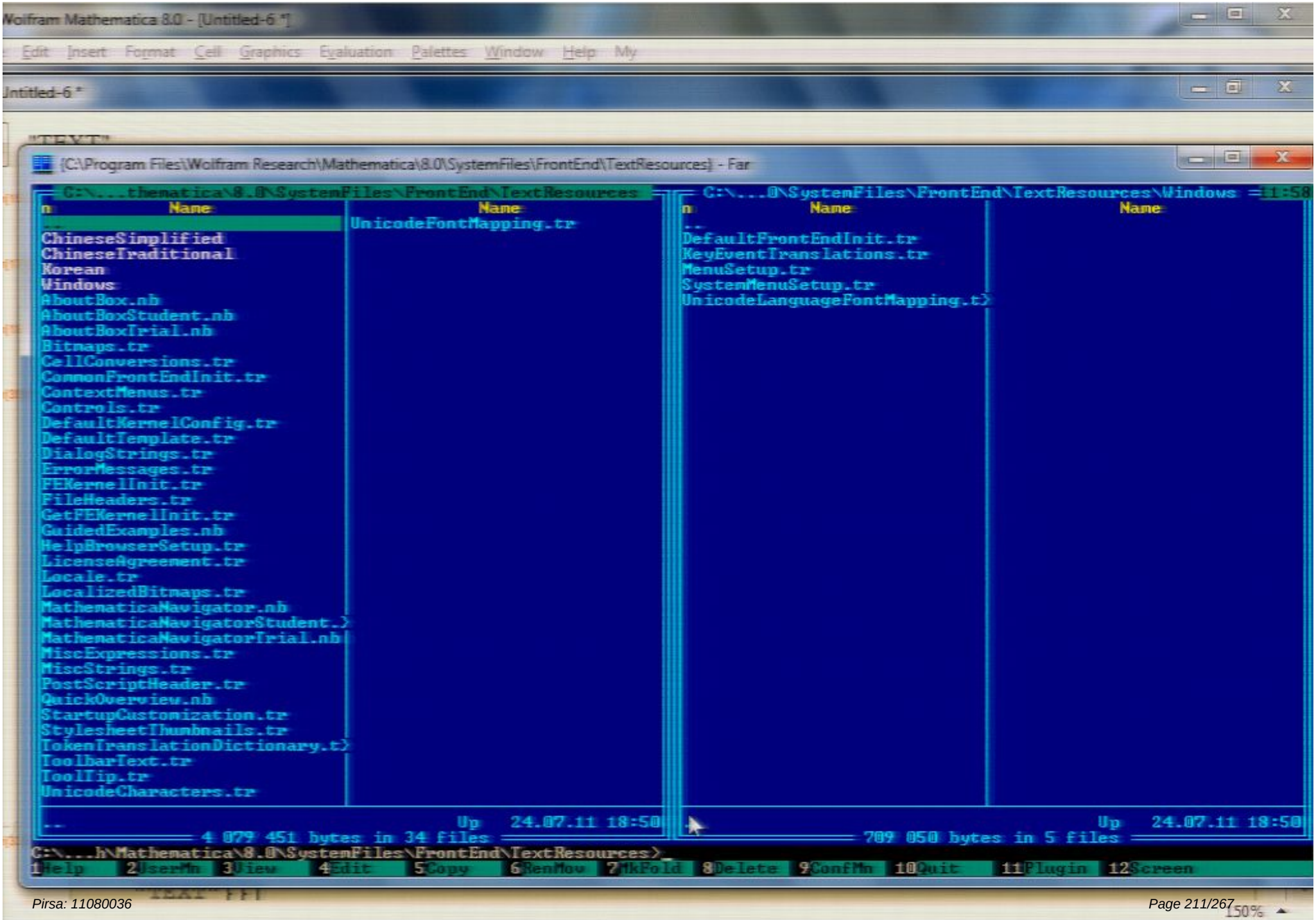

Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
"TEXT"
{C:\Program Files} - Far
C:\Program Files
n Name
..
7-Zip
ASUS
ATI
ATI Technologies
ATKGENEX
Babylon
Bonjour
Common Files
DVD Maker
eclipse
Hewlett-Packard
HP
Internet Explorer
ipe-7.0.10
iPod
iTunes
Microsoft Games
Microsoft Help Viewer
Microsoft Office
Microsoft Security Client
Microsoft SQL Server
Microsoft Visual Studio 10.0
Microsoft.NET
MSBuild
P4G
Realtek
Reference Assemblies
Synaptics
TrueSuite
Uninstall Information
WIDCOMM
Windows Defender
Windows Journal
Windows Live
Windows Mail
Windows Media Player
Windows NT
Name
Windows Photo Viewer
Windows Portable Devices
Windows Sidebar
Wireless Console 2
Wolfram Research
desktop.ini
Wolfram Research Folder 07.12.09 21:23
174 bytes in 1 file
C:\...0\SystemFiles\FrontEnd\TextResources\Windows
n Name
..
DefaultFrontEndInit.tr
KeyEventTranslations.tr
MenuSetup.tr
SystemMenuSetup.tr
UnicodeLanguageFontMapping.t
Name
Up 24.07.11 18:50
709 050 bytes in 5 files
C:\Program Files>
1Help 2UserMn 3View 4Edit 5Copy 6RenMov 7MkFold 8Delete 9ConfMn 10Quit 11Plugin 12Screen

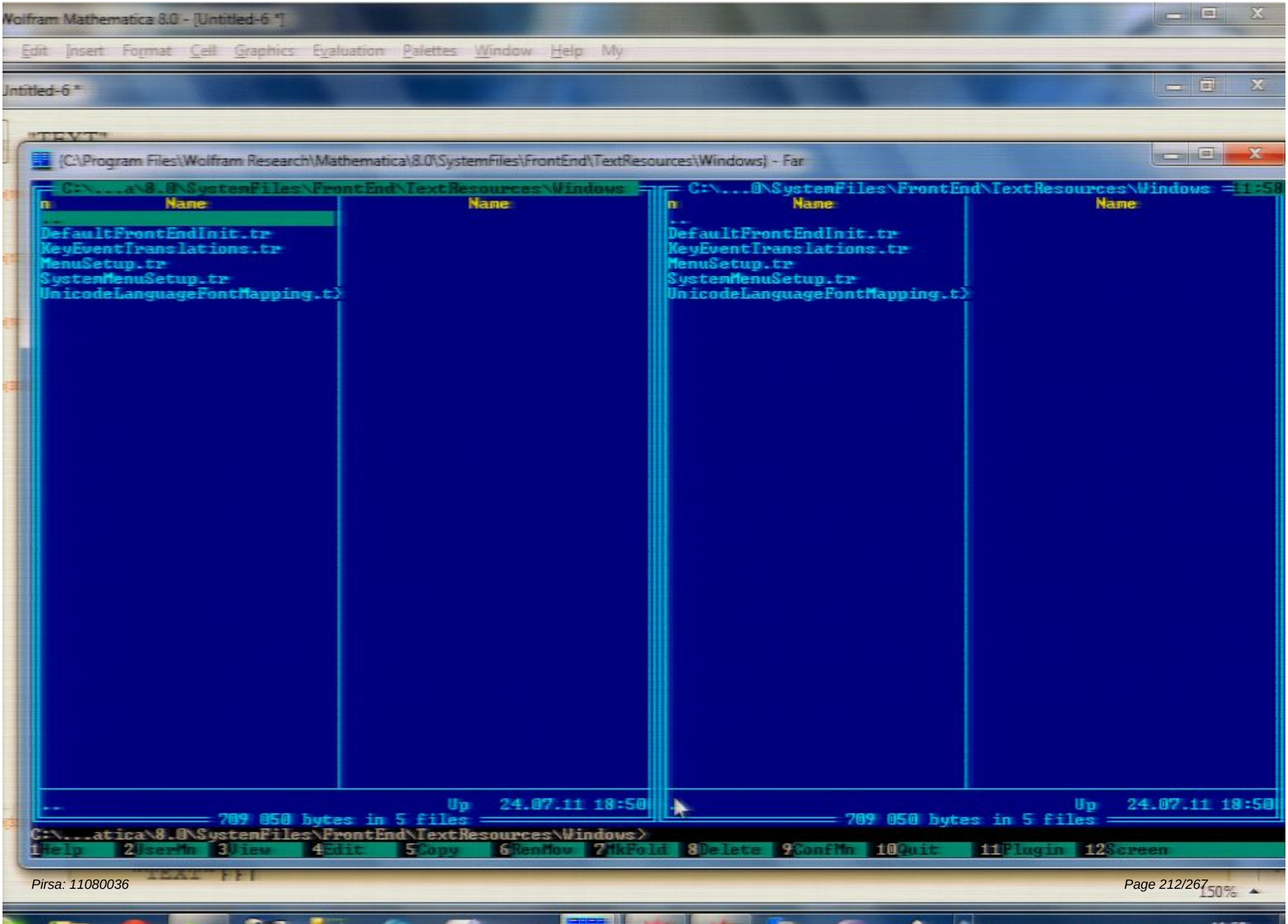

Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
(C:\Program Files\Wolfram Research) - Far
C:\Program Files\Wolfram Research
n Name Name
..
Mathematica
C:\...0\SystemFiles\FrontEnd\TextResources\Windows
n Name Name
..
DefaultFrontEndInit.tr
KeyEventTranslations.tr
MenuSetup.tr
SystemMenuSetup.tr
UnicodeLanguageFontMapping.t
Up 07.12.09 21:23
0 bytes in 0 files
Up 24.07.11 18:50
709 050 bytes in 5 files
C:\Program Files\Wolfram Research>
1Help 2UserMn 3View 4Edit 5Copy 6RenMov 7MkFold 8Delete 9ConfMn 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
"TEXT"
{C:\Program Files\Wolfram Research\Mathematica\8.0} - Far
C:\Program Files\Wolfram Research\Mathematica\8.0
n Name Name
..
AddOns
Configuration
Documentation
SystemFiles
.CreationID
.PatchLevel
.VersionID
math.exe
Mathematica.exe
MathKernel.exe
Documentation Folder 12.01.11 11:42
2 042 435 bytes in 6 files
C:\...0\SystemFiles\FrontEnd\TextResources\Windows 11:58
n Name Name
..
DefaultFrontEndInit.tr
KeyEventTranslations.tr
MenuSetup.tr
SystemMenuSetup.tr
UnicodeLanguageFontMapping.t
Up 24.07.11 18:50
709 050 bytes in 5 files
C:\Program Files\Wolfram Research\Mathematica\8.0>_
1Help 2UserMn 3View 4Edit 5Copy 6RenMov 7MkFold 8Delete 9ConfMn 10Quit 11Plugin 12Screen
"TEXT"
150%


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
(C:\Program Files\Wolfram Research\Mathematica\8.0\SystemFiles) - Far
C:\...les\Wolfram Research\Mathematica\8.0\SystemFiles
n Name Name
..
Autoload
CharacterEncodings
Converters
Devices
Dictionaries
Fonts
Formats
FrontEnd
Graphics
IncludeFiles
Installation
Java
Kernel
Libraries
Links
SpellingDictionaries
UninstallFiles
Autoload Folder 12.01.11 11:47
0 bytes in 0 files
C:\...n Files\Wolfram Research\Mathematica\8.0\SystemFiles>
1Help 2UserMn 3View 4Edit 5Copy 6RenMov 7MkFold 8Delete 9ConfMn 10Quit 11Plugin 12Screen
C:\...0\SystemFiles\FrontEnd\TextResources\Windows
n Name Name
..
DefaultFrontEndInit.tr
KeyEventTranslations.tr
MenuSetup.tr
SystemMenuSetup.tr
UnicodeLanguageFontMapping.t
Up 24.07.11 18:50
709 050 bytes in 5 files
11:58


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
"TEXT"
{C:\Program Files\Wolfram Research\Mathematica\8.0\SystemFiles\FrontEnd} - Far
C:\...an Research\Mathematica\8.0\SystemFiles\FrontEnd
n Name Name
..
Binaries
Palettes
StyleSheets
SystemResources
TextResources
Binaries Folder 24.07.11 18:50
0 bytes in 0 files
C:\...0\SystemFiles\FrontEnd\TextResources\Windows 11:58
n Name Name
..
DefaultFrontEndInit.tr
KeyEventTranslations.tr
MenuSetup.tr
SystemMenuSetup.tr
UnicodeLanguageFontMapping.t
Up 24.07.11 18:50
709 050 bytes in 5 files
C:\...olfram Research\Mathematica\8.0\SystemFiles\FrontEnd>
1Help 2UserMn 3View 4Edit 5Copy 6RenMov 7MkFold 8Delete 9ConfMn 10Quit 11Plugin 12Screen
"TEXT"
150%


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
"TEXT"
{C:\Program Files\Wolfram Research\Mathematica\8.0\SystemFiles\FrontEnd\TextResources} - Far
C:\...thematica\8.0\SystemFiles\FrontEnd\TextResources
n Name Name
..
ChineseSimplified
ChineseTraditional
Korean
Windows
AboutBox.nb
AboutBoxStudent.nb
AboutBoxTrial.nb
Bitmaps.tr
CellConversions.tr
CommonFrontEndInit.tr
ContextMenus.tr
Controls.tr
DefaultKernelConfig.tr
DefaultTemplate.tr
DialogStrings.tr
ErrorMessages.tr
FEKernelInit.tr
FileHeaders.tr
GetFEKernelInit.tr
GuidedExamples.nb
HelpBrowserSetup.tr
LicenseAgreement.tr
Locale.tr
LocalizedBitmaps.tr
MathematicaNavigator.nb
MathematicaNavigatorStudent.t
MathematicaNavigatorTrial.nb
MiscExpressions.tr
MiscStrings.tr
PostScriptHeader.tr
QuickOverview.nb
StartupCustomization.tr
StylesheetThumbnails.tr
TokenTranslationDictionary.t
ToolbarText.tr
ToolTip.tr
UnicodeCharacters.tr
UnicodeFontMapping.tr
Up 24.07.11 18:50
4 079 451 bytes in 34 files
C:\...\SystemFiles\FrontEnd\TextResources\Windows
n Name Name
..
DefaultFrontEndInit.tr
KeyEventTranslations.tr
MenuSetup.tr
SystemMenuSetup.tr
UnicodeLanguageFontMapping.t
Up 24.07.11 18:50
709 050 bytes in 5 files
C:\...h\Mathematica\8.0\SystemFiles\FrontEnd\TextResources>
1Help 2UserMn 3View 4Edit 5Copy 6RenMov 7MkFold 8Delete 9ConfMn 10Quit 11Plugin 12Screen
11:58
150%


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
(C:\Program Files\Wolfram Research\Mathematica\8.0\SystemFiles\FrontEnd\TextResources\Windows) - Far
C:\...a\8.0\SystemFiles\FrontEnd\TextResources\Windows
n Name Name
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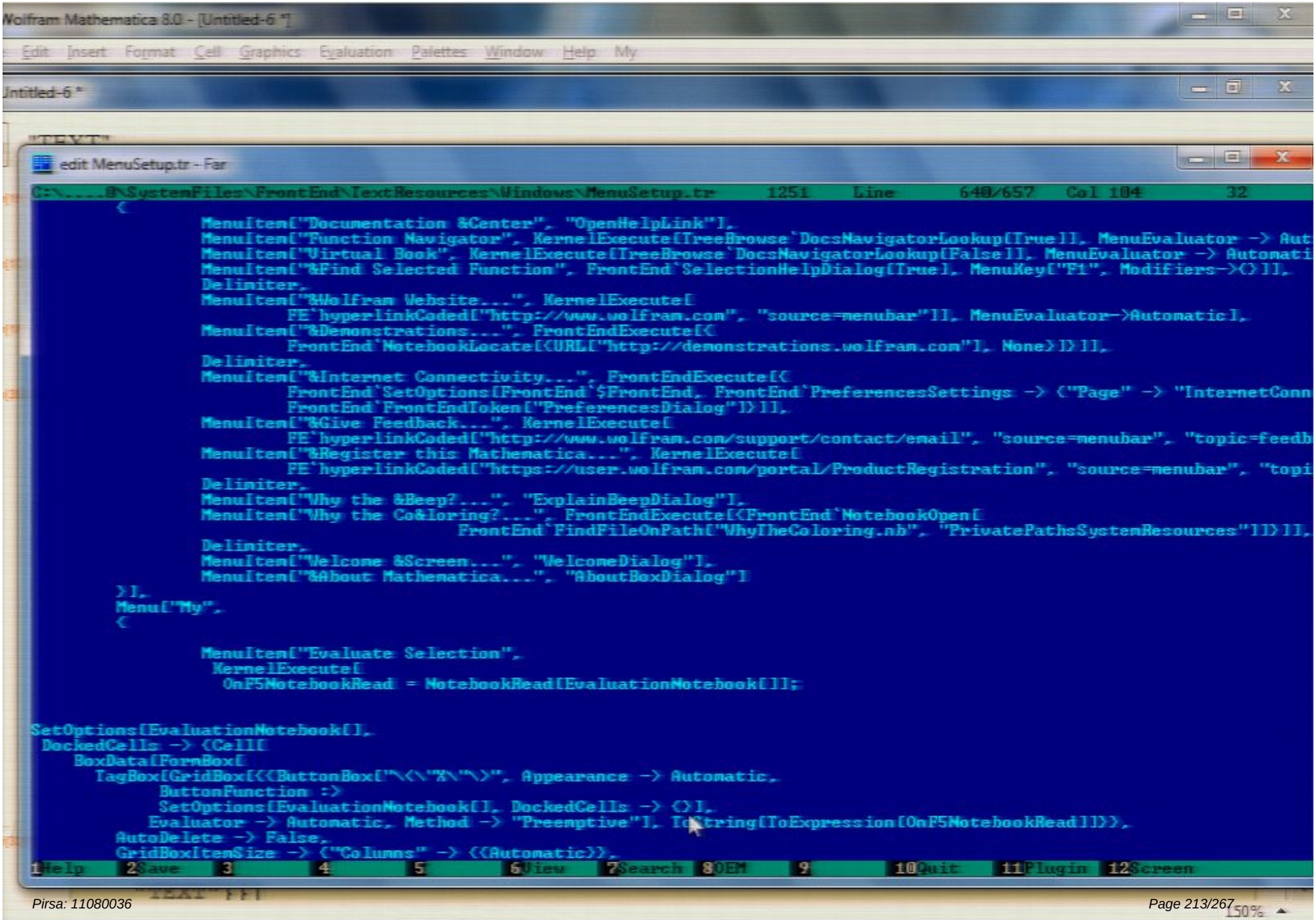
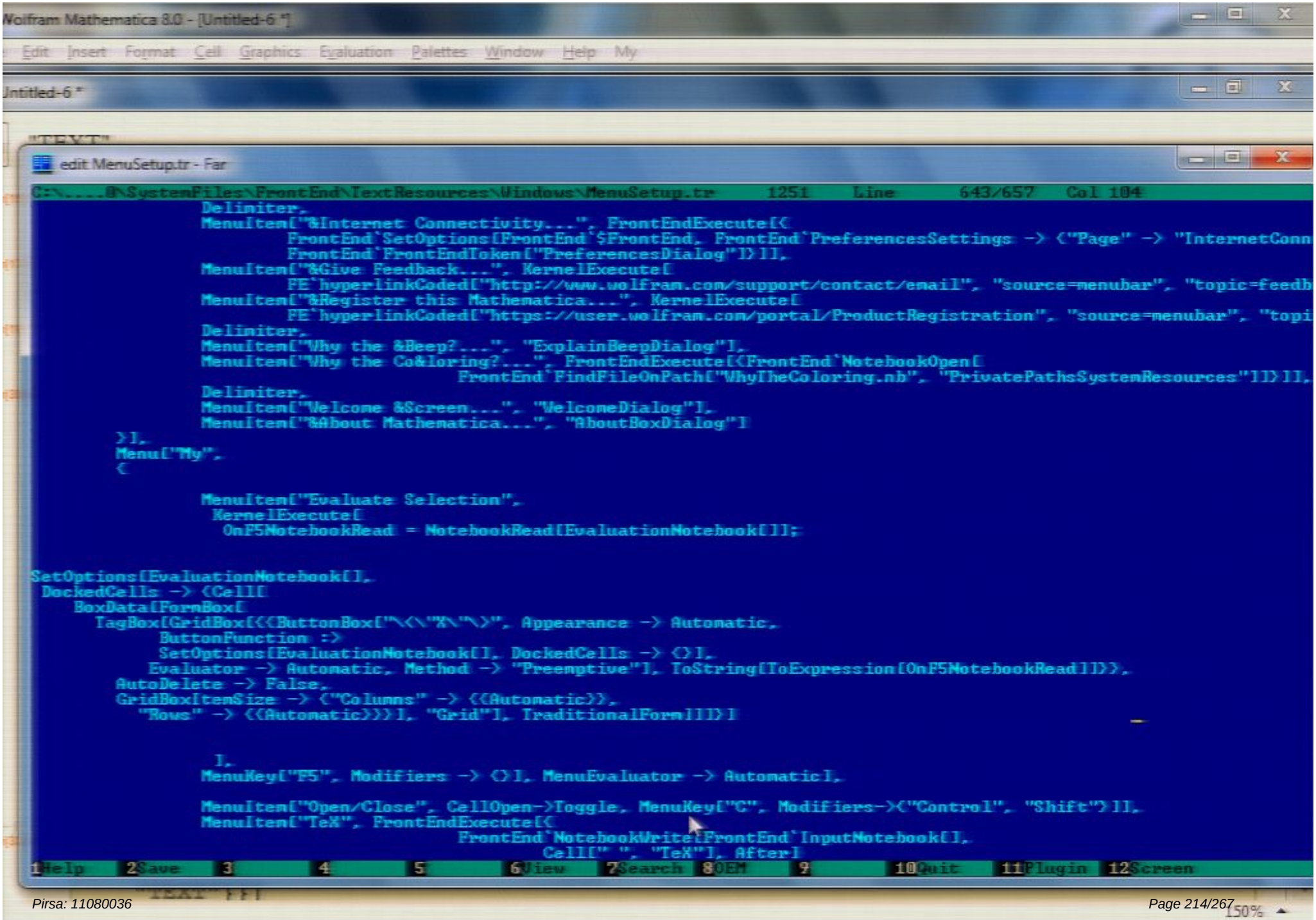
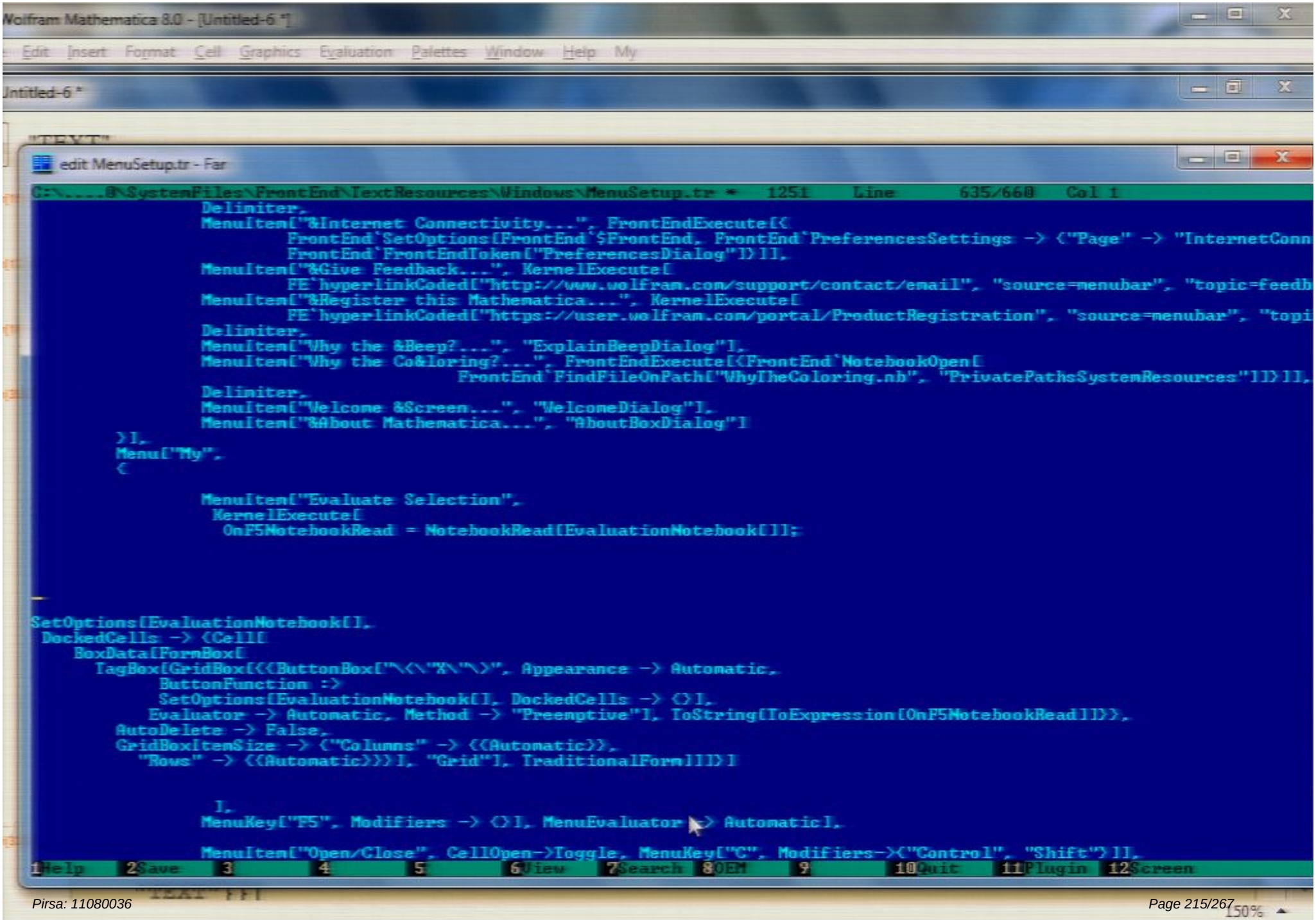
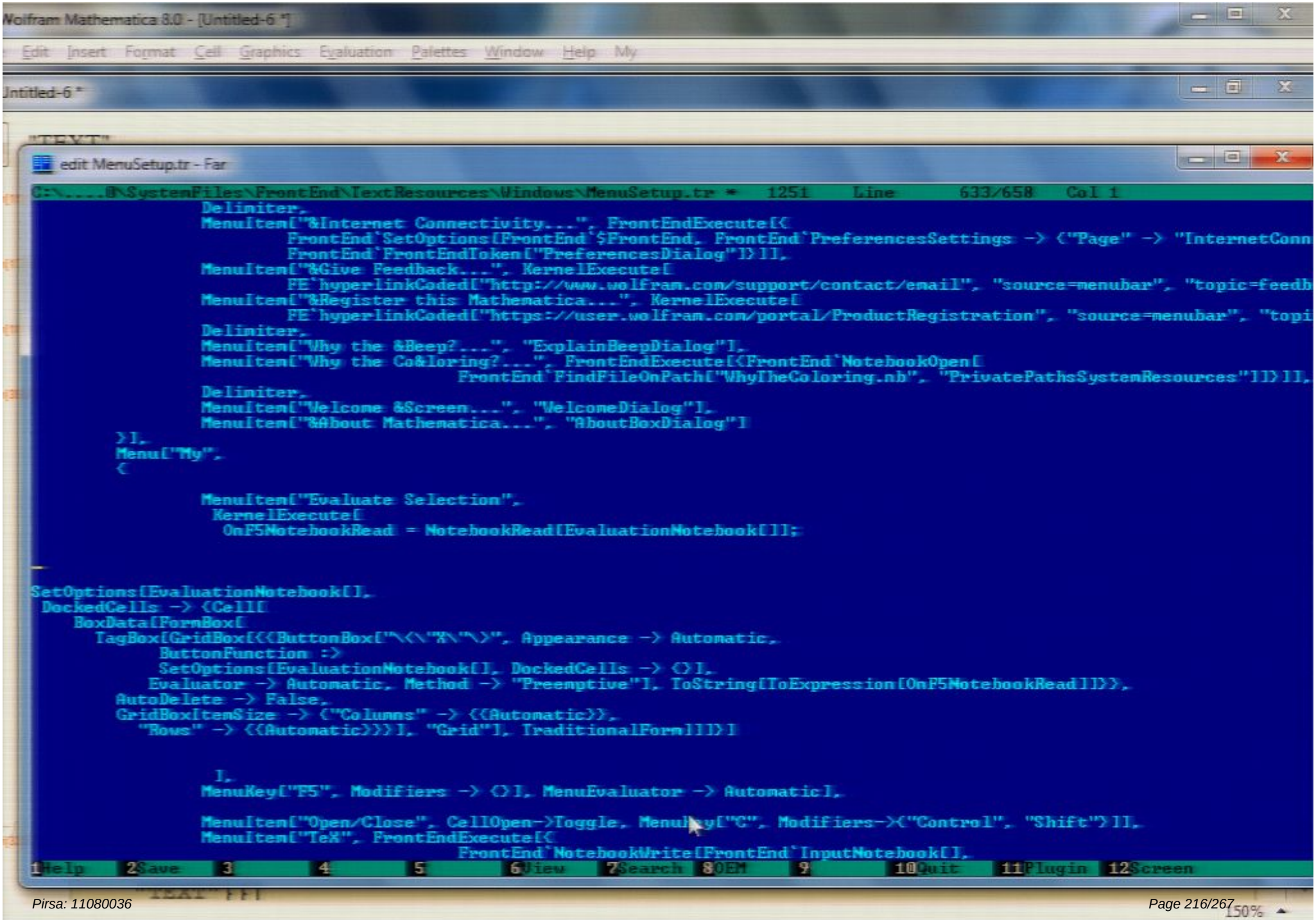
DefaultFrontEndInit.tr
KeyEventTranslations.tr
MenuSetup.tr
SystemMenuSetup.tr
UnicodeLanguageFontMapping.t>
Up 24.07.11 18:50
709 050 bytes in 5 files
C:\...atica\8.0\SystemFiles\FrontEnd\TextResources\Windows>
1Help 2UserMn 3View 4Edit 5Copy 6RenMov 7MkFold 8Delete 9ConfMn 10Quit 11Plugin 12Screen
C:\...0\SystemFiles\FrontEnd\TextResources\Windows 11:58
n Name Name
..
DefaultFrontEndInit.tr
KeyEventTranslations.tr
MenuSetup.tr
SystemMenuSetup.tr
UnicodeLanguageFontMapping.t>
Up 24.07.11 18:50
709 050 bytes in 5 files
150%


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
edit MenuSetup.tr - Far
C:\....8\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr 1251 Line 640/657 Col 104 32
MenuItem["Documentation &Center", "OpenHelpLink"],
MenuItem["Function Navigator", KernelExecute[TreeBrowse`DocsNavigatorLookup[True]], MenuEvaluator -> Aut
MenuItem["Virtual Book", KernelExecute[TreeBrowse`DocsNavigatorLookup[False]], MenuEvaluator -> Automati
MenuItem["&Find Selected Function", FrontEnd`SelectionHelpDialog[True], MenuKey["F1", Modifiers->{}]],
Deliniter,
MenuItem["&Wolfram Website...", KernelExecute[
FE`hyperlinkCoded["http://www.wolfram.com", "source=menubar"]], MenuEvaluator->Automatic],
MenuItem["&Demonstrations...", FrontEndExecute[{
FrontEnd`NotebookLocate[{URL["http://demonstrations.wolfram.com"], None}]}]],
Deliniter,
MenuItem["&Internet Connectivity...", FrontEndExecute[{
FrontEnd`SetOptions[FrontEnd`$FrontEnd, FrontEnd`PreferencesSettings -> {"Page" -> "InternetConn
FrontEnd`FrontEndToken["PreferencesDialog"]}]],
MenuItem["&Give Feedback...", KernelExecute[
FE`hyperlinkCoded["http://www.wolfram.com/support/contact/email", "source=menubar", "topic=feedb
MenuItem["&Register this Mathematica...", KernelExecute[
FE`hyperlinkCoded["https://user.wolfram.com/portal/ProductRegistration", "source=menubar", "topi
Deliniter,
MenuItem["Why the &Beep?...", "ExplainBeepDialog"],
MenuItem["Why the Co&loring?...", FrontEndExecute[{FrontEnd`NotebookOpen[
FrontEnd`FindFileOnPath["WhyTheColoring.nb", "PrivatePathsSystemResources"]]}]],
Deliniter,
MenuItem["Welcome &Screen...", "WelcomeDialog"],
MenuItem["&About Mathematica...", "AboutBoxDialog"]
}],
Menu["My",
{
MenuItem["Evaluate Selection",
KernelExecute[
OnF5NotebookRead = NotebookRead[EvaluationNotebook[]];
SetOptions[EvaluationNotebook[],
DockedCells -> {Cell[
BoxData[FormBox[
TagBox[GridBox[{{ButtonBox["\(\"%\"\)", Appearance -> Automatic,
ButtonFunction :>
SetOptions[EvaluationNotebook[], DockedCells -> {}],
Evaluator -> Automatic, Method -> "Preemptive"], ToString[ToExpression[OnF5NotebookRead]]}},
AutoDelete -> False,
GridBoxItemSize -> {"Columns" -> {{Automatic}}},
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
150%


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
edit MenuSetup.tr - Far
C:\....8\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr 1251 Line 643/657 Col 104
Deliniter,
MenuItem["&Internet Connectivity...", FrontEndExecute[{
FrontEnd`SetOptions[FrontEnd`$FrontEnd, FrontEnd`PreferencesSettings -> {"Page" -> "InternetConn
FrontEnd`FrontEndToken["PreferencesDialog"]}]],
MenuItem["&Give Feedback...", KernelExecute[
FE`hyperlinkCoded["http://www.wolfram.com/support/contact/email", "source=menubar", "topic=feedb
MenuItem["&Register this Mathematica...", KernelExecute[
FE`hyperlinkCoded["https://user.wolfram.com/portal/ProductRegistration", "source=menubar", "topi
Deliniter,
MenuItem["Why the &Beep?...", "ExplainBeepDialog"],
MenuItem["Why the Co&loring?...", FrontEndExecute[{FrontEnd`NotebookOpen[
FrontEnd`FindFileOnPath["WhyTheColoring.nb", "PrivatePathsSystemResources"]]}]],
Deliniter,
MenuItem["Welcome &Screen...", "WelcomeDialog"],
MenuItem["&About Mathematica...", "AboutBoxDialog"]
}],
Menu["My",
{
MenuItem["Evaluate Selection",
KernelExecute[
OnF5NotebookRead = NotebookRead[EvaluationNotebook[]];
SetOptions[EvaluationNotebook[],
DockedCells -> {Cell[
BoxData[FormBox[
TagBox[GridBox[{{ButtonBox["\(\"X\"\)", Appearance -> Automatic,
ButtonFunction :>
SetOptions[EvaluationNotebook[], DockedCells -> {}],
Evaluator -> Automatic, Method -> "Preemptive"], ToString[ToExpression[OnF5NotebookRead]]}},
AutoDelete -> False,
GridBoxItemSize -> {"Columns" -> {{Automatic}},
"Rows" -> {{Automatic}}}], "Grid"], TraditionalForm]]}]
],
MenuKey["F5", Modifiers -> {}], MenuEvaluator -> Automatic],
MenuItem["Open/Close", CellOpen->Toggle, MenuKey["C", Modifiers->{"Control", "Shift"}]],
MenuItem["TeX", FrontEndExecute[{
FrontEnd`NotebookWrite[FrontEnd`InputNotebook[],
Cell[" ", "TeX"], After]
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
edit MenuSetup.tr - Far
C:\....0\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr * 1251 Line 635/660 Col 1
Deliniter,
MenuItem["&Internet Connectivity...", FrontEndExecute[{
FrontEnd`SetOptions[FrontEnd`$FrontEnd, FrontEnd`PreferencesSettings -> {"Page" -> "InternetConn
FrontEnd`FrontEndToken["PreferencesDialog"]}]],
MenuItem["&Give Feedback...", KernelExecute[
FE`hyperlinkCoded["http://www.wolfram.com/support/contact/email", "source=menubar", "topic=feedb
MenuItem["&Register this Mathematica...", KernelExecute[
FE`hyperlinkCoded["https://user.wolfram.com/portal/ProductRegistration", "source=menubar", "topi
Deliniter,
MenuItem["Why the &Beep?...", "ExplainBeepDialog"],
MenuItem["Why the Co&loring?...", FrontEndExecute[{FrontEnd`NotebookOpen[
FrontEnd`FindFileOnPath["WhyTheColoring.nb", "PrivatePathsSystemResources"]]}]],
Deliniter,
MenuItem["Welcome &Screen...", "WelcomeDialog"],
MenuItem["&About Mathematica...", "AboutBoxDialog"]
}],
Menu["My",
{
MenuItem["Evaluate Selection",
KernelExecute[
OnF5NotebookRead = NotebookRead[EvaluationNotebook[]];
SetOptions[EvaluationNotebook[],
DockedCells -> {Cell[
BoxData[FormBox[
TagBox[GridBox[{{ButtonBox["\(\"X\"\)", Appearance -> Automatic,
ButtonFunction :>
SetOptions[EvaluationNotebook[], DockedCells -> {}],
Evaluator -> Automatic, Method -> "Preemptive"], ToString[ToExpression[OnF5NotebookRead]]}},
AutoDelete -> False,
GridBoxItemSize -> {"Columns" -> {{Automatic}},
"Rows" -> {{Automatic}}}], "Grid"], TraditionalForm]]}]
],
MenuKey["F5", Modifiers -> {}], MenuEvaluator -> Automatic],
MenuItem["Open/Close", CellOpen->Toggle, MenuKey["C", Modifiers->{"Control", "Shift"}]],
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
edit MenuSetup.tr - Far
C:\....0\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr * 1251 Line 633/658 Col 1
Deliniter,
MenuItem["&Internet Connectivity...", FrontEndExecute[{
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FrontEnd`FrontEndToken["PreferencesDialog"]}]],
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FE`hyperlinkCoded["https://user.wolfram.com/portal/ProductRegistration", "source=menubar", "topi
Deliniter,
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MenuItem["Why the Co&loring?...", FrontEndExecute[{FrontEnd`NotebookOpen[
FrontEnd`FindFileOnPath["WhyTheColoring.nb", "PrivatePathsSystemResources"]]}]],
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MenuItem["&About Mathematica...", "AboutBoxDialog"]
}],
Menu["My",
{
MenuItem["Evaluate Selection",
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AutoDelete -> False,
GridBoxItemSize -> {"Columns" -> {{Automatic}},
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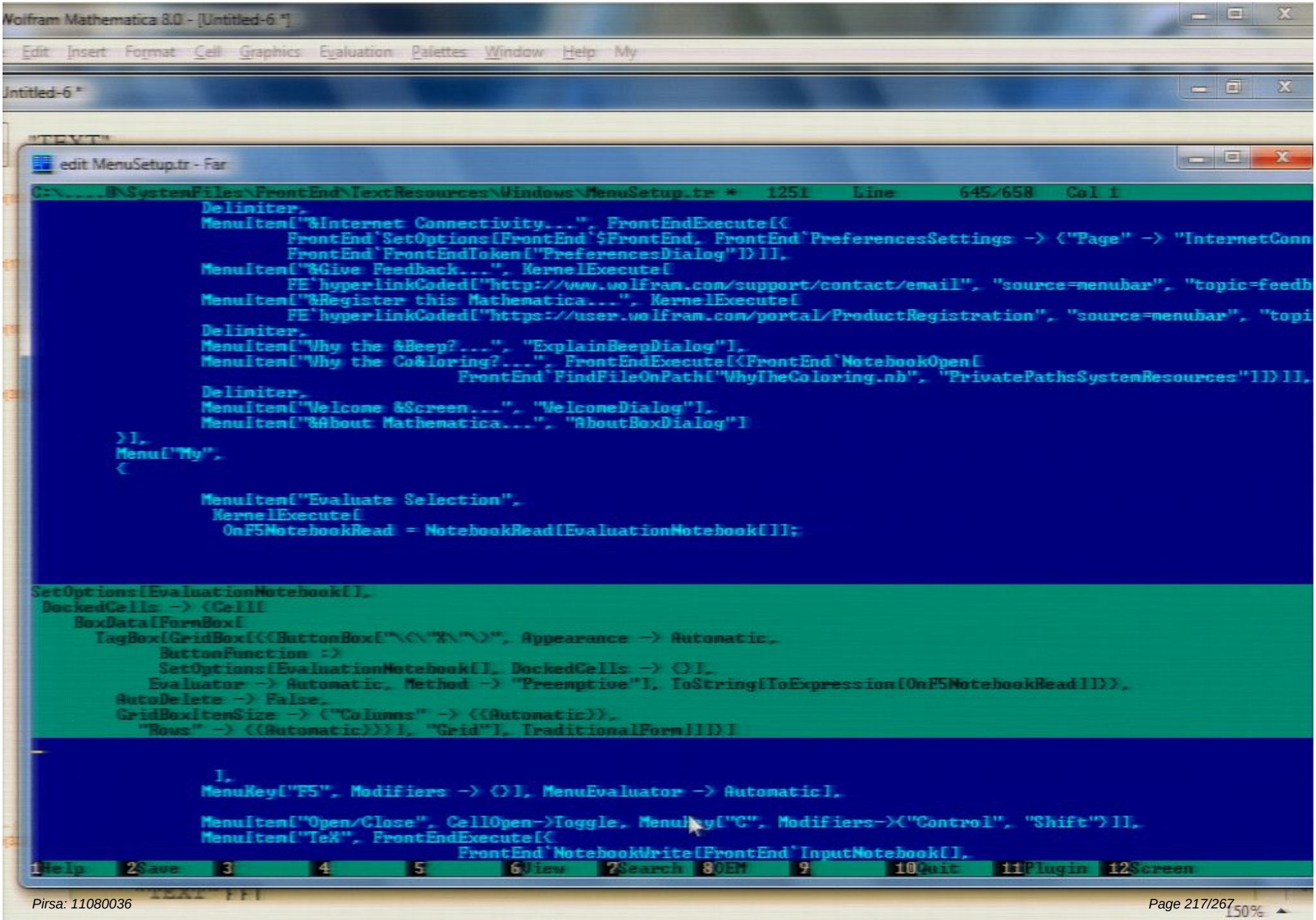
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
150%


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
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C:\....8\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr * 1251 Line 645/658 Col 1
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MenuItem["Why the &Beep?...", "ExplainBeepDialog"],
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AutoDelete -> False,
GridBoxItemSize -> {"Columns" -> {{Automatic}},
"Rows" -> {{Automatic}}}], "Grid"], TraditionalForm]]}]
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1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
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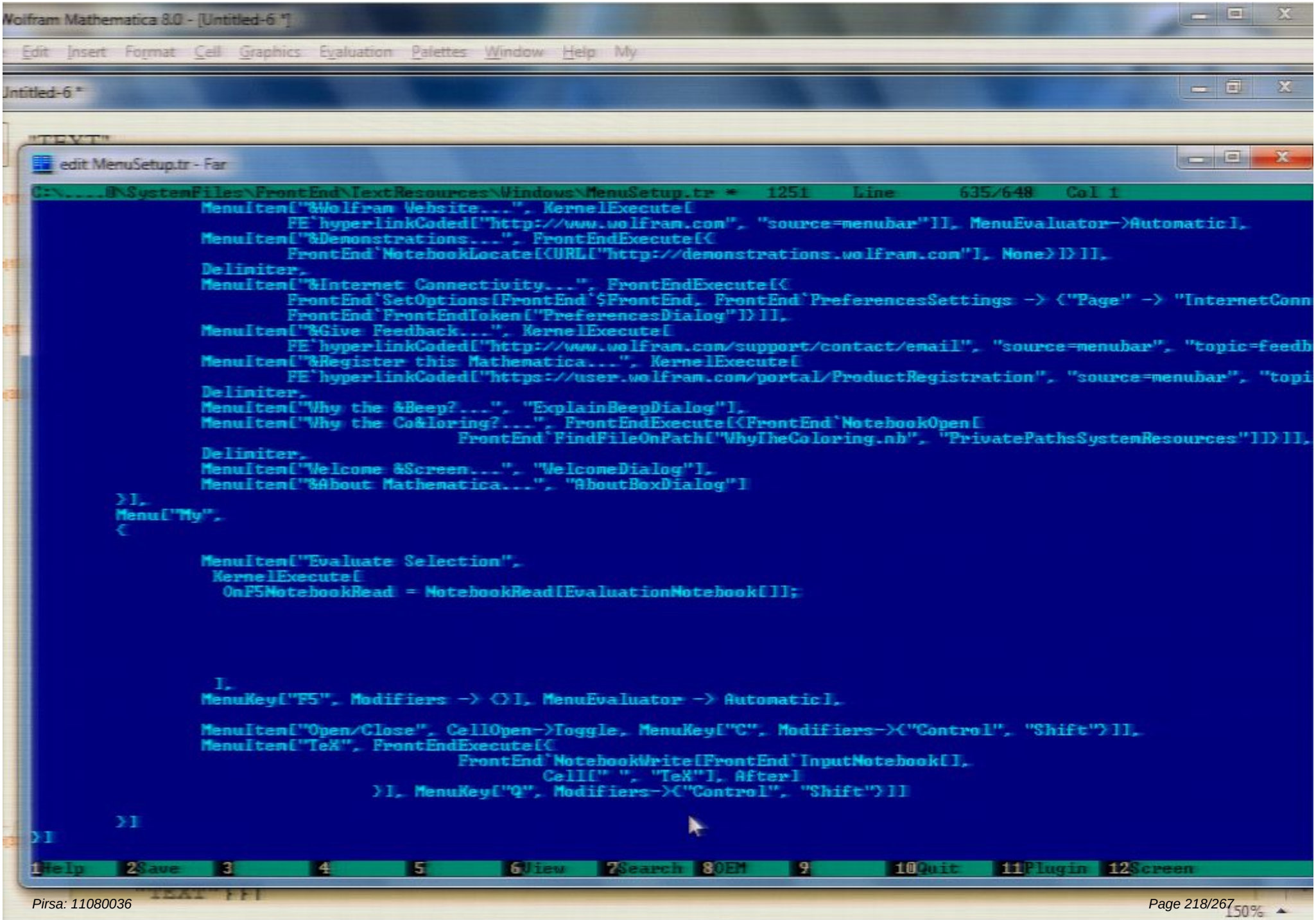
Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
edit MenuSetup.tr - Far
C:\....0\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr * 1251 Line 635/648 Col 1
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MenuItem["&About Mathematica...", "AboutBoxDialog"]
}],
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MenuKey["F5", Modifiers -> {}], MenuEvaluator -> Automatic],
MenuItem["Open/Close", CellOpen->Toggle, MenuKey["C", Modifiers->{"Control", "Shift"}]],
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FrontEnd`NotebookWrite[FrontEnd`InputNotebook[],
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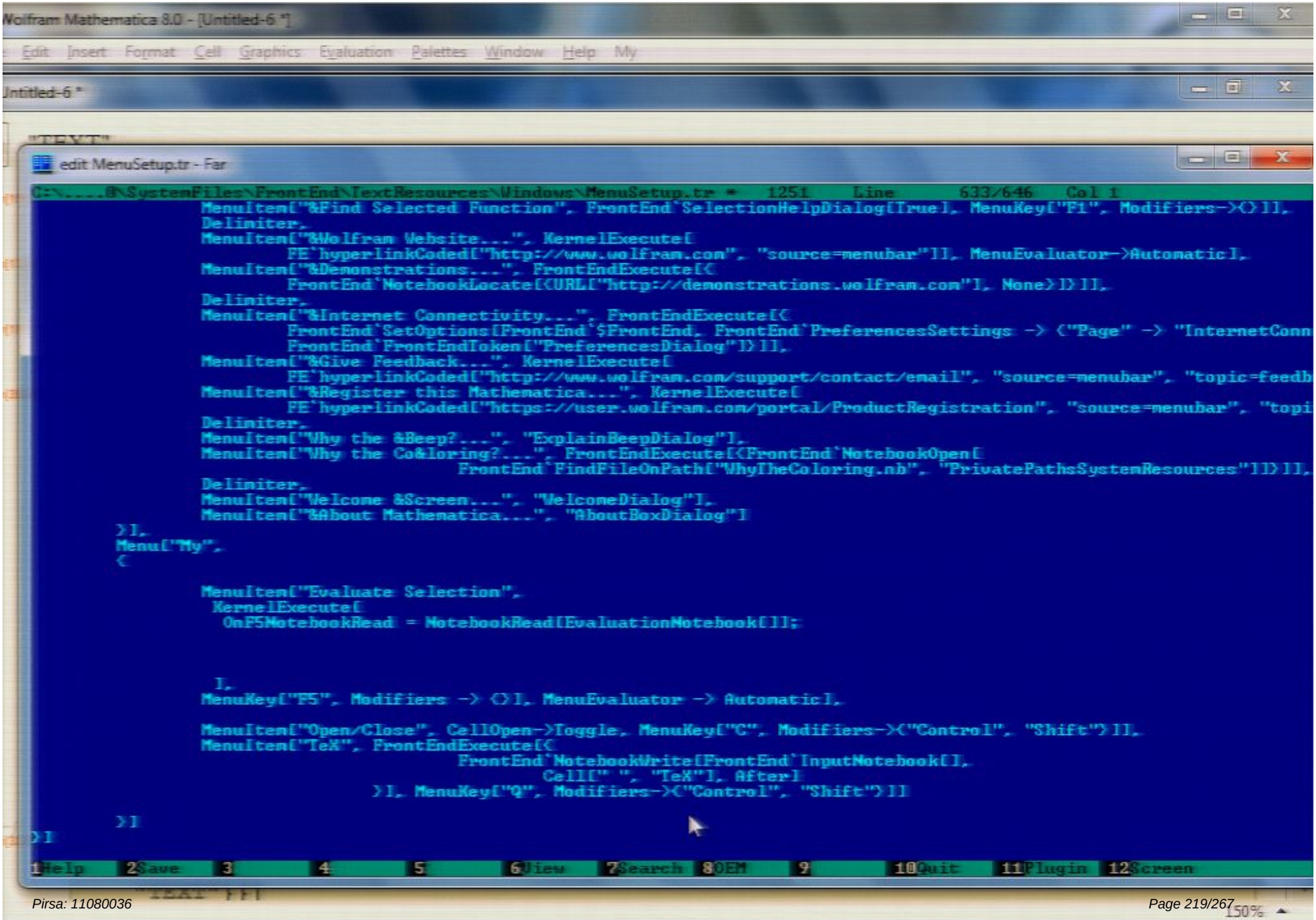
}], MenuKey["Q", Modifiers->{"Control", "Shift"}]]
}]
}]
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-6 *]
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edit MenuSetup.tr - Far
C:\....0\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr * 1251 Line 633/646 Col 1
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MenuItem["Why the &Beep?...", "ExplainBeepDialog"],
MenuItem["Why the Co&loring?...", FrontEndExecute[{FrontEnd`NotebookOpen[
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MenuItem["Welcome &Screen...", "WelcomeDialog"],
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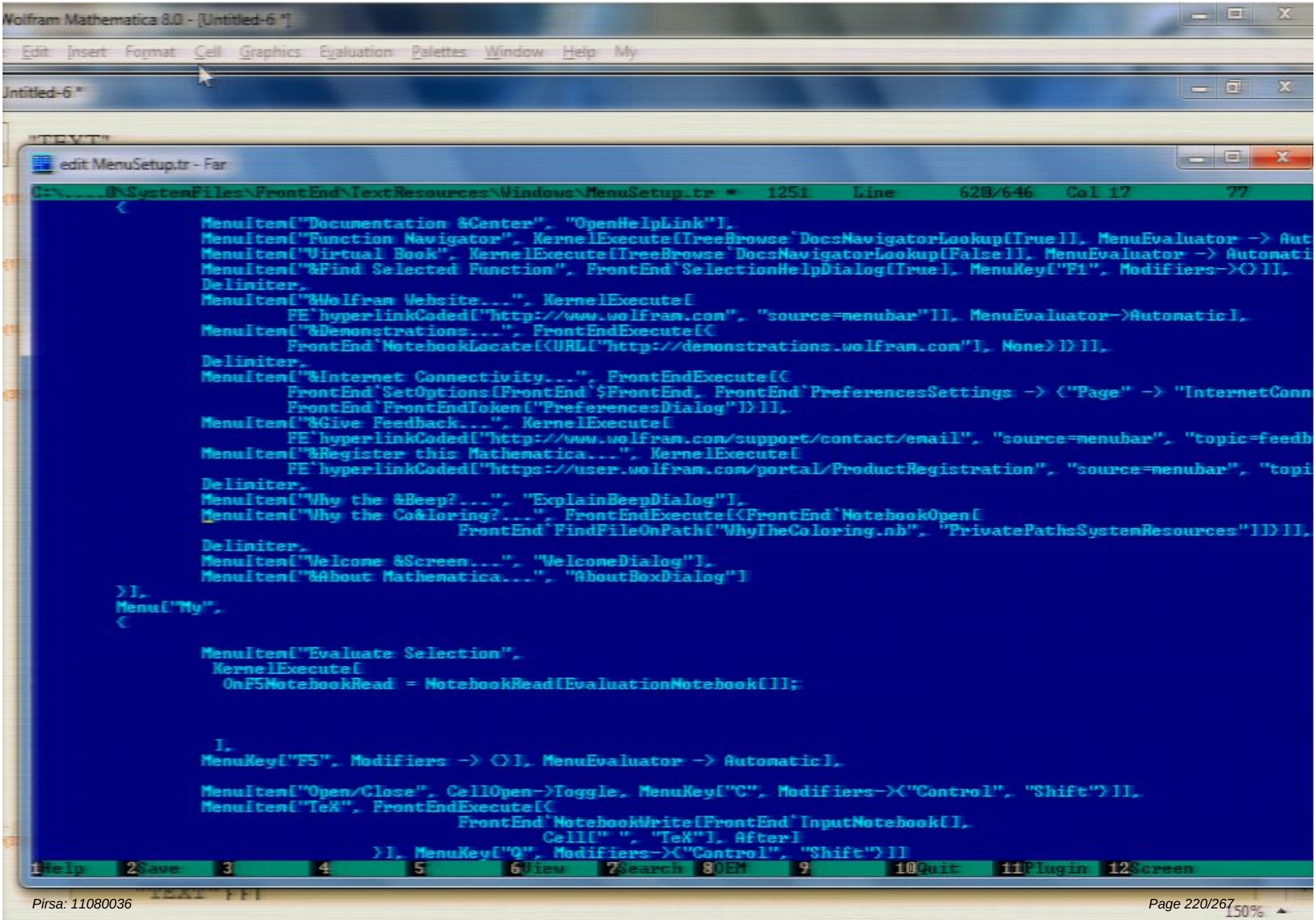
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
edit MenuSetup.tr - Far
C:\....0\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr * 1251 Line 620/646 Col 17 77
{
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MenuItem["Function Navigator", KernelExecute[TreeBrowse`DocsNavigatorLookup[True]], MenuEvaluator -> Aut
MenuItem["Virtual Book", KernelExecute[TreeBrowse`DocsNavigatorLookup[False]], MenuEvaluator -> Automati
MenuItem["&Find Selected Function", FrontEnd`SelectionHelpDialog[True], MenuKey["F1", Modifiers->{}]],
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{
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MenuItem["TeX", FrontEndExecute[{
FrontEnd`NotebookWrite[FrontEnd`InputNotebook[],
Cell[" ", "TeX"], After]
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1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
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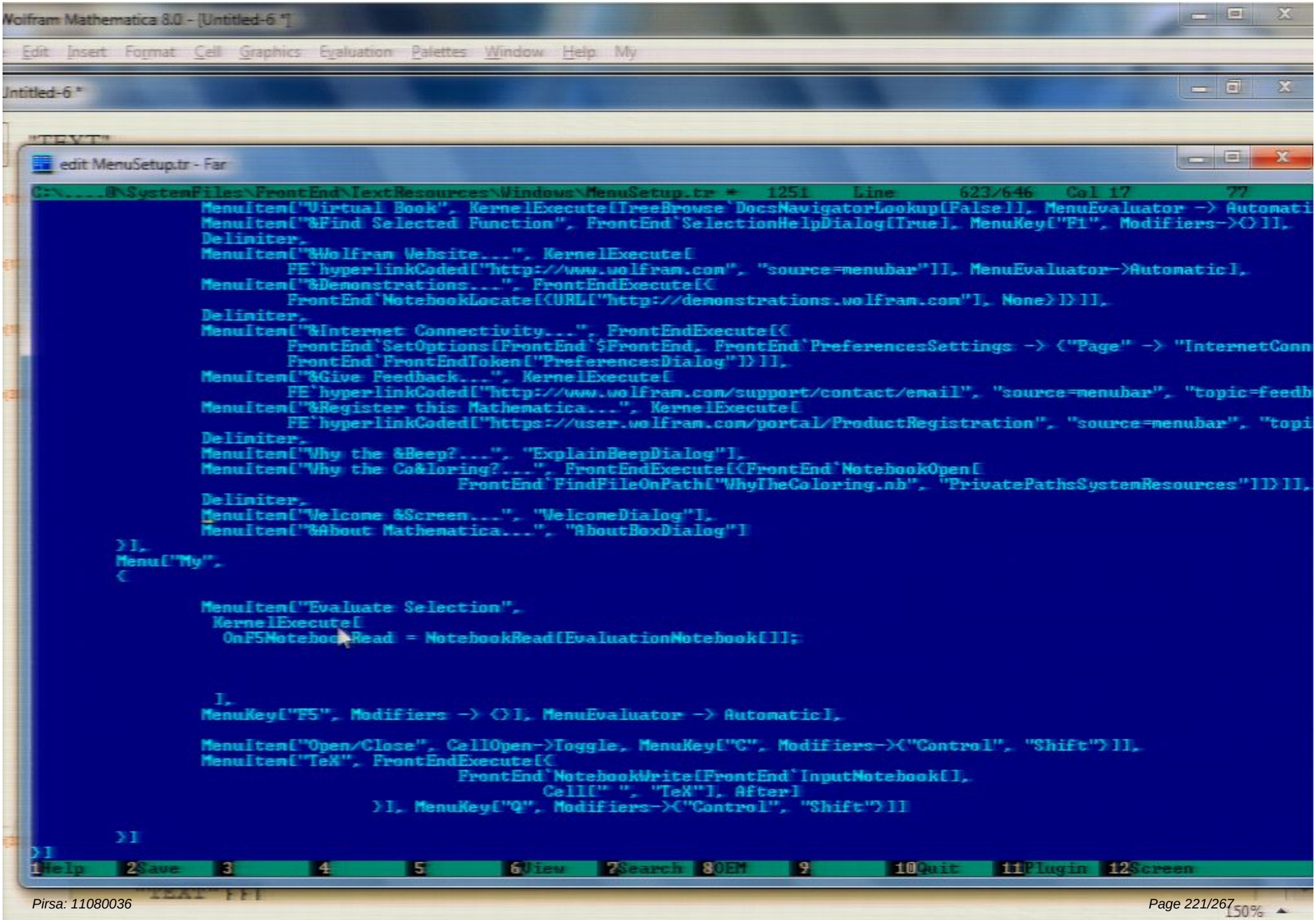
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C:\....0\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr * 1251 Line 623/646 Col 17 77
MenuItem["Virtual Book", KernelExecute[TreeBrowse`DocsNavigatorLookup[False]], MenuEvaluator -> Automati
MenuItem["&Find Selected Function", FrontEnd`SelectionHelpDialog[True], MenuKey["F1", Modifiers->{}]],
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MenuItem["&Register this Mathematica...", KernelExecute[
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Deliniter,
MenuItem["Why the &Beep?...", "ExplainBeepDialog"],
MenuItem["Why the Co&loring?...", FrontEndExecute[{FrontEnd`NotebookOpen[
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}]
}]
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
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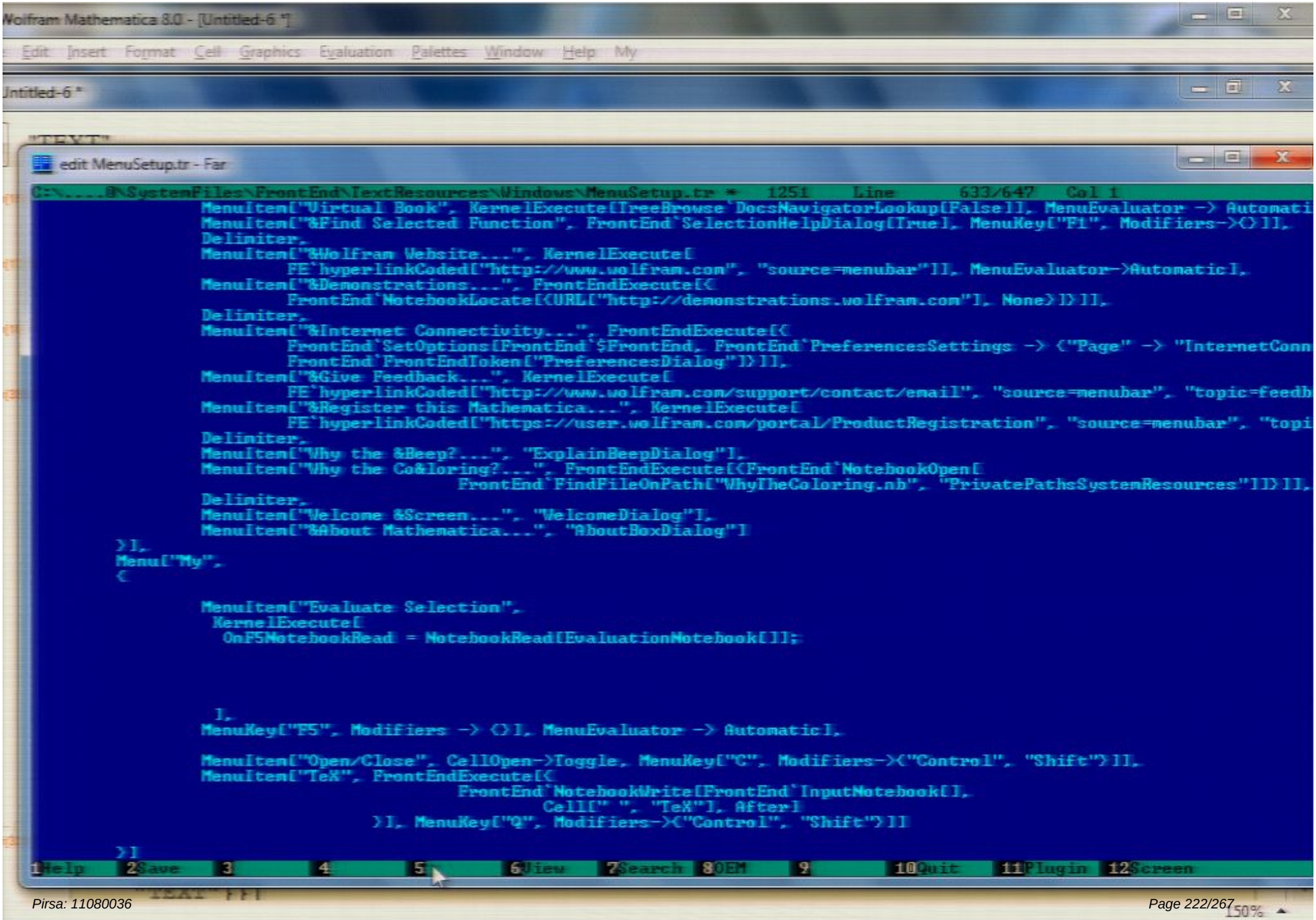
Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
edit MenuSetup.tr - Far
C:\....8\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr * 1251 Line 633/647 Col 1
MenuItem["Virtual Book", KernelExecute[TreeBrowse`DocsNavigatorLookup[False]], MenuEvaluator -> Automati
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MenuItem["Welcome &Screen...", "WelcomeDialog"],
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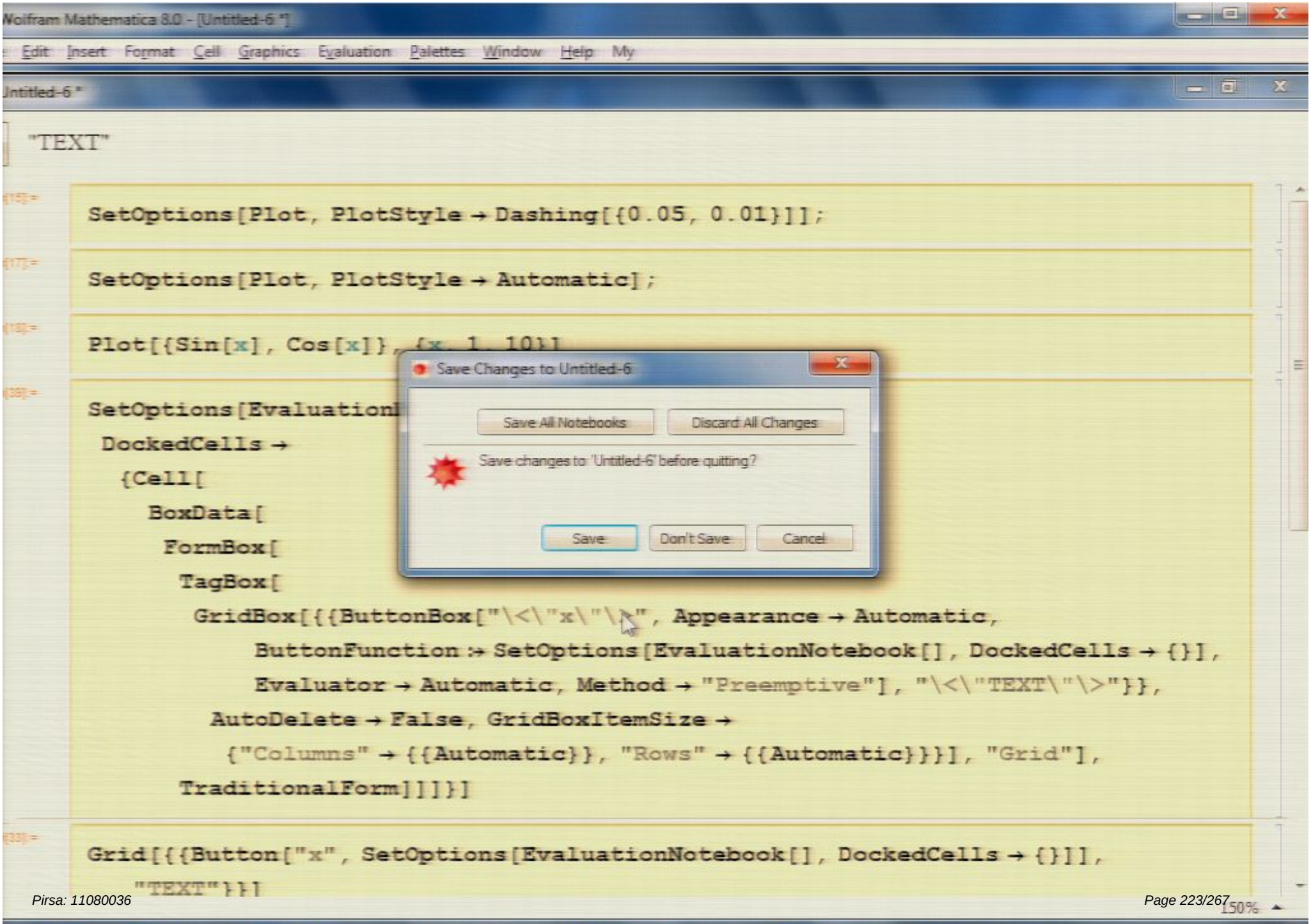
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-6 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-6 *
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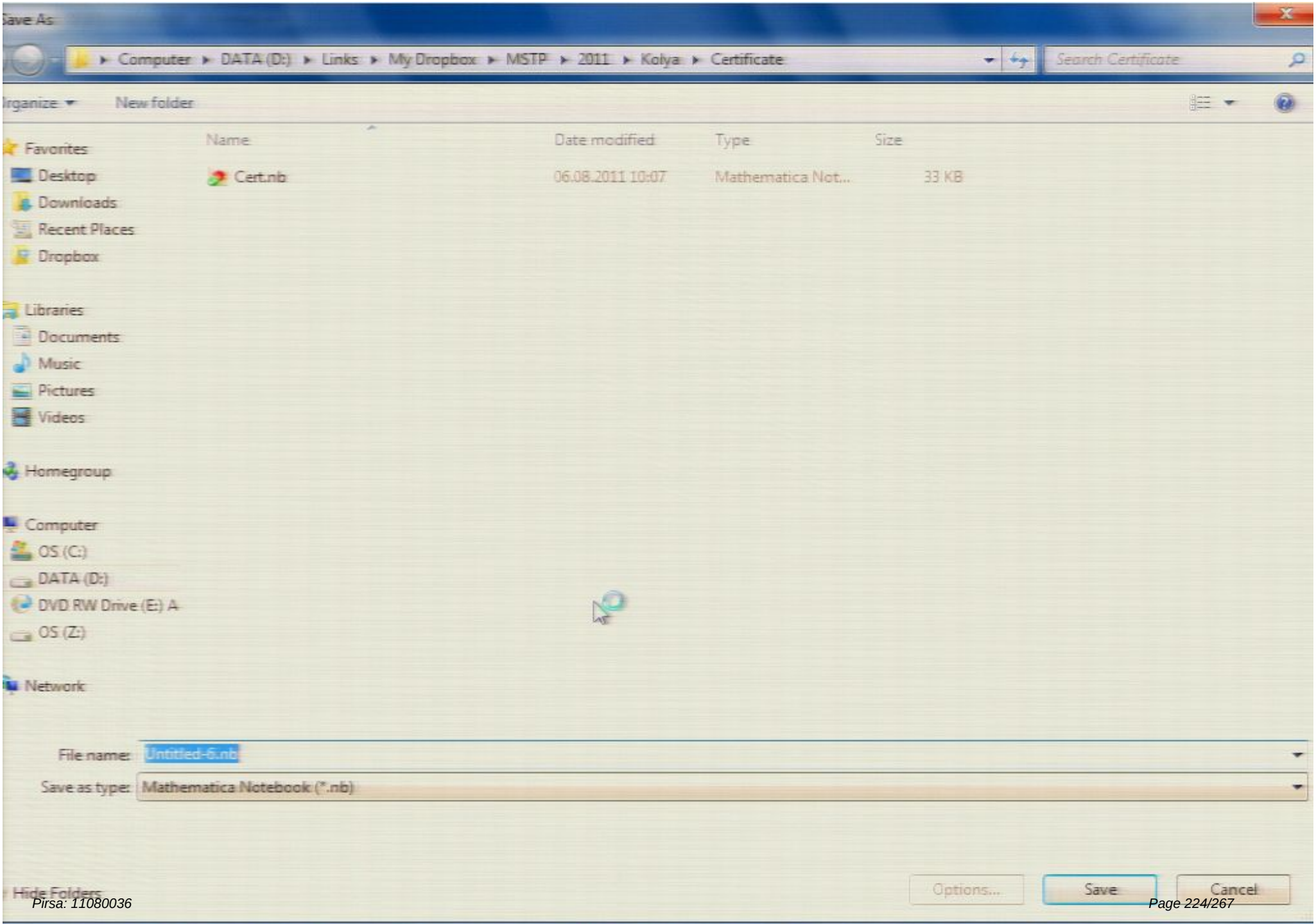
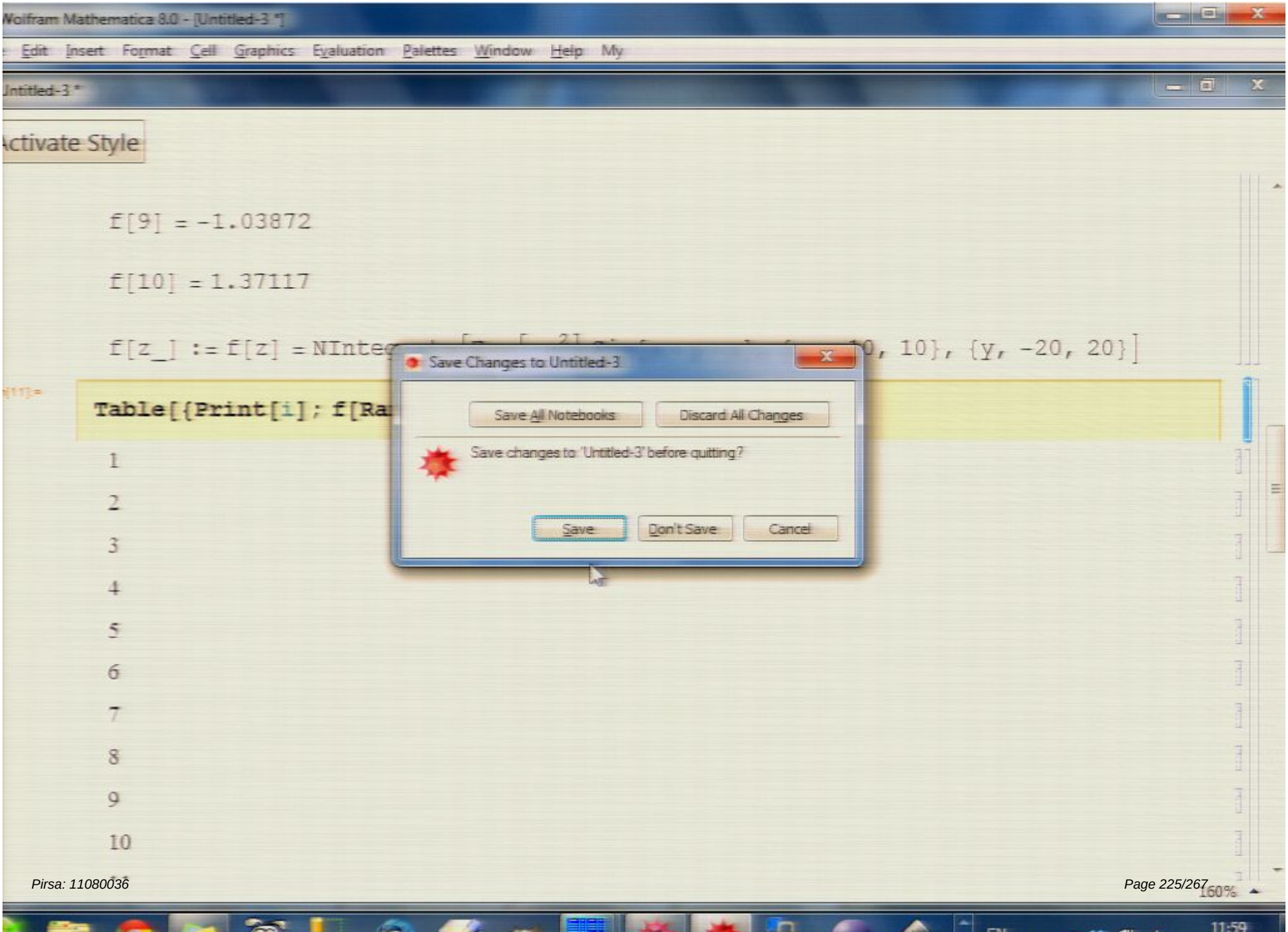
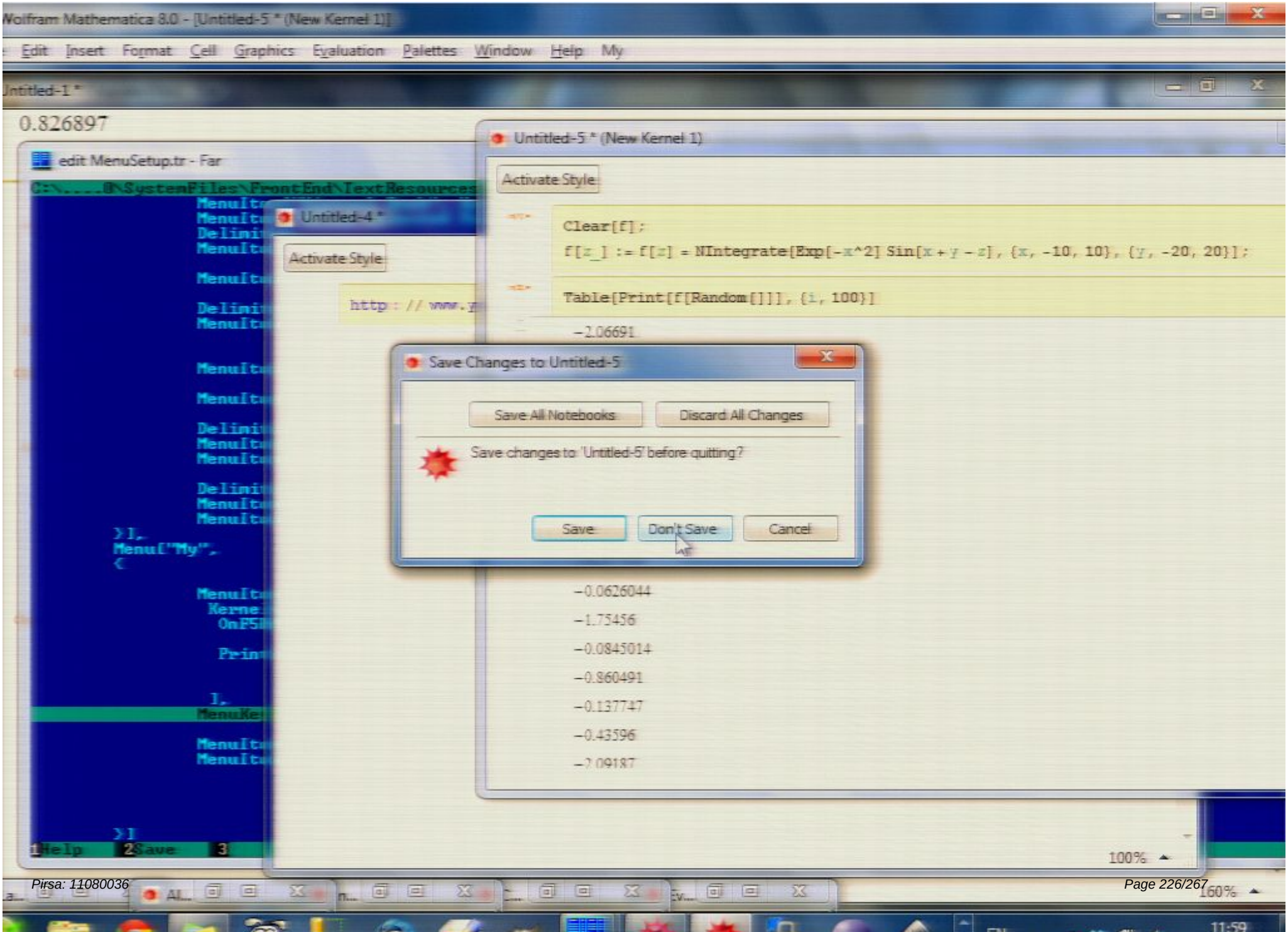
SetOptions[Plot, PlotStyle → Automatic];
Plot[{Sin[x], Cos[x]}, {x, 1, 10}]
SetOptions[Evaluation
DockedCells →
{Cell[
BoxData[
FormBox[
TagBox[
GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
ButtonFunction :→ SetOptions[EvaluationNotebook[], DockedCells → {}],
Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
AutoDelete → False, GridBoxItemSize →
{"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
TraditionalForm]]]}]
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
"TEXT"}}]
Save Changes to Untitled-6
Save All Notebooks
Discard All Changes
Save changes to 'Untitled-6' before quitting?
Save
Don't Save
Cancel


Save As
Computer ▸ DATA (D:) ▸ Links ▸ My Dropbox ▸ MSTP ▸ 2011 ▸ Kolya ▸ Certificate
Search Certificate
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Dropbox
Libraries
Documents
Music
Pictures
Videos
Homegroup
Computer
OS (C:)
DATA (D:)
DVD RW Drive (E:) A
OS (Z:)
Network
Name
Date modified
Type
Size
Cert.nb
06.08.2011 10:07
Mathematica Not...
33 KB
File name:
Untitled-6.nb
Save as type:
Mathematica Notebook (*.nb)
Hide Folders
Options...
Save
Cancel


Wolfram Mathematica 8.0 - [Untitled-3 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-3 *
Activate Style
f[9] = -1.03872
f[10] = 1.37117
f[z_] := f[z] = NInteg
0, 10}, {y, -20, 20}]
Table[{Print[i]; f[Ra
Save Changes to Untitled-3
Save All Notebooks
Discard All Changes
Save changes to 'Untitled-3' before quitting?
Save
Don't Save
Cancel
1
2
3
4
5
6
7
8
9
10
160%


Wolfram Mathematica 8.0 - [Untitled-5 * (New Kernel 1)]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1 *
0.826897
edit MenuSetup.tr - Far
Untitled-4 *
Activate Style
Untitled-5 * (New Kernel 1)
Activate Style
Clear[f];
f[z_] := f[z] = NIntegrate[Exp[-x^2] Sin[x + y - z], {x, -10, 10}, {y, -20, 20}];
Table[Print[f[Random[]]], {i, 100}]
-2.06691
Save Changes to Untitled-5
Save All Notebooks
Discard All Changes
Save changes to 'Untitled-5' before quitting?
Save
Don't Save
Cancel
-0.0626044
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-0.0845014
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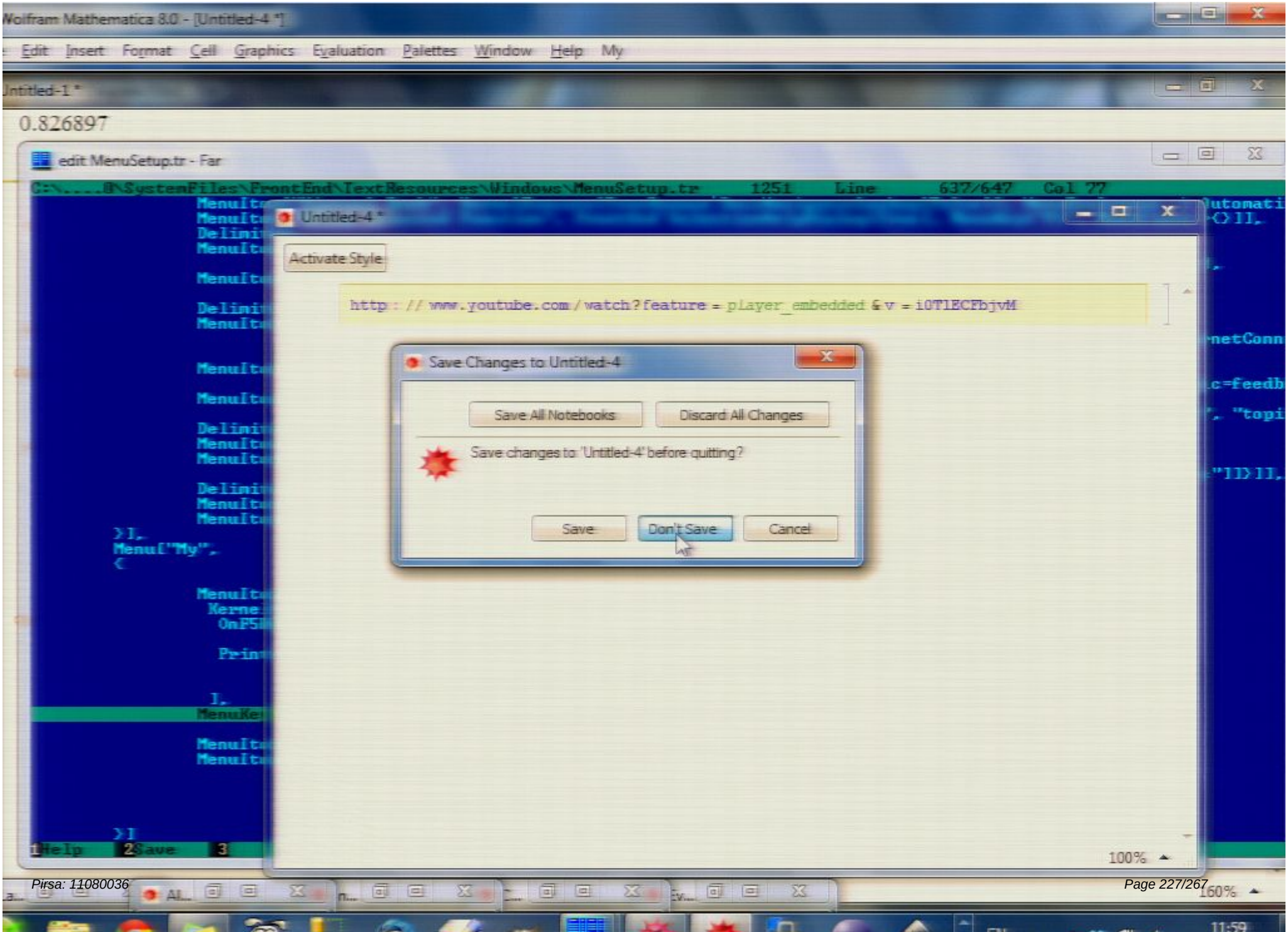
100%
160%


Wolfram Mathematica 8.0 - [Untitled-4 *]
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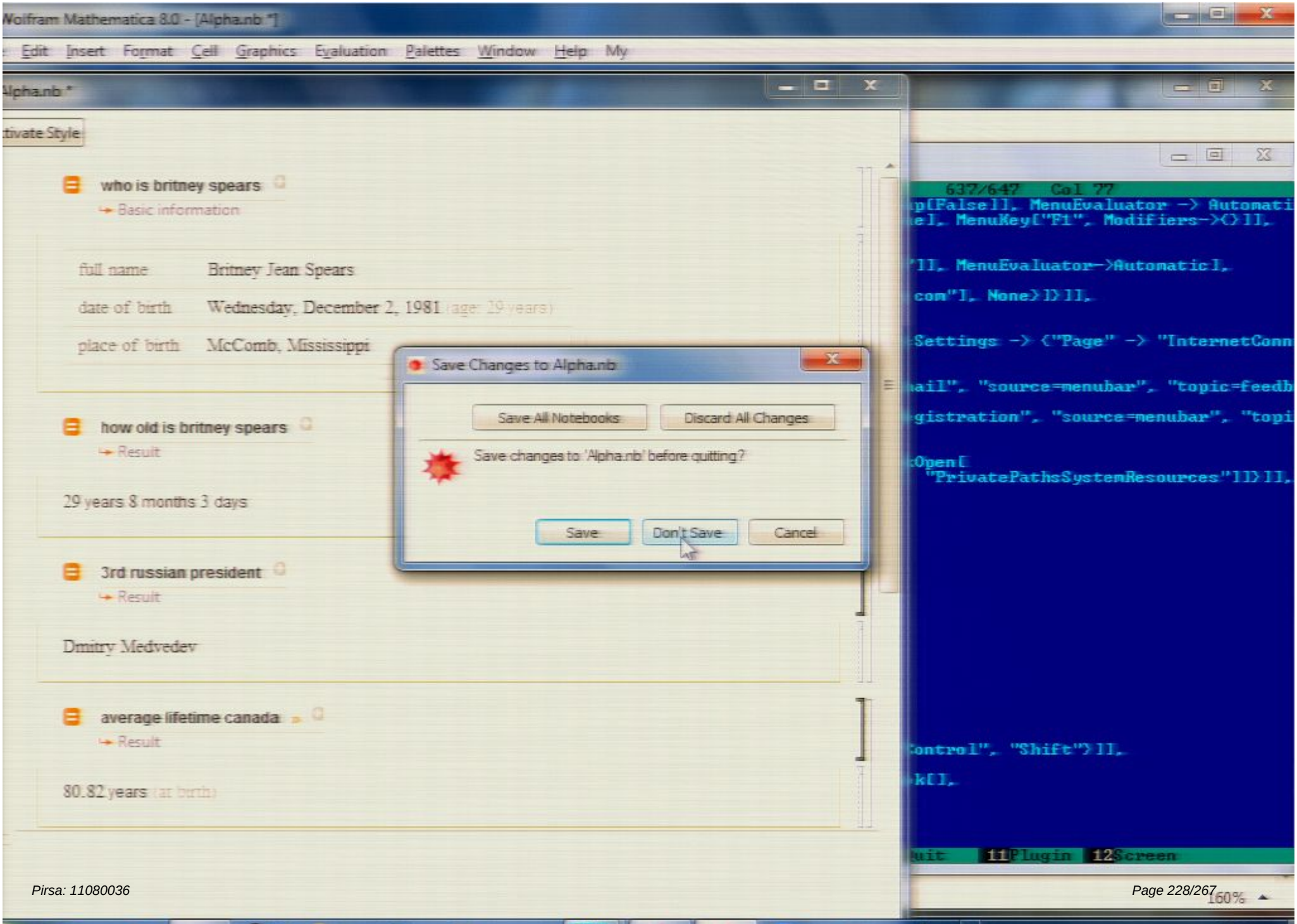
Untitled-1 *
0.826897
edit MenuSetup.tr - Far
Untitled-4 *
Activate Style
http://www.youtube.com/watch?feature=player_embedded&v=i0TlECFbjvM
Save Changes to Untitled-4
Save All Notebooks
Discard All Changes
Save changes to 'Untitled-4' before quitting?
Save
Don't Save
Cancel
100%
160%


Wolfram Mathematica 8.0 - [Alpha.nb *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Alpha.nb *
tivate Style
who is britney spears
Basic information
full name Britney Jean Spears
date of birth Wednesday, December 2, 1981 (age: 29 years)
place of birth McComb, Mississippi
how old is britney spears
Result
29 years 8 months 3 days
3rd russian president
Result
Dmitry Medvedev
average lifetime canada
Result
80.82 years (at birth)
Save Changes to Alpha.nb
Save All Notebooks
Discard All Changes
Save changes to 'Alpha.nb' before quitting?
Save
Don't Save
Cancel
637/647 Col 77
p[False]], MenuEvaluator -> Automati
e], MenuKey["F1", Modifiers->{}]],
']], MenuEvaluator->Automatic],
com"], None}]}]],
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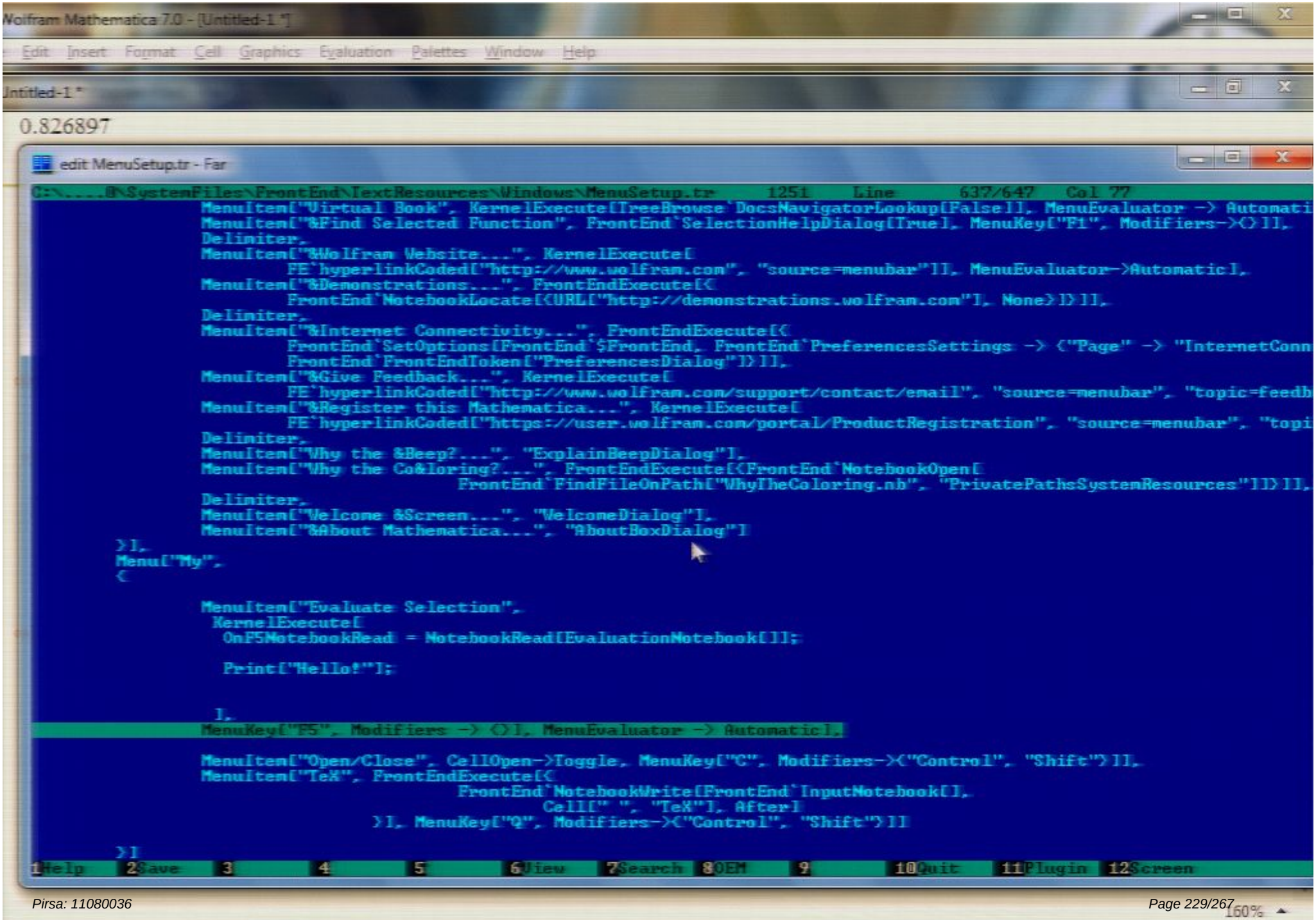
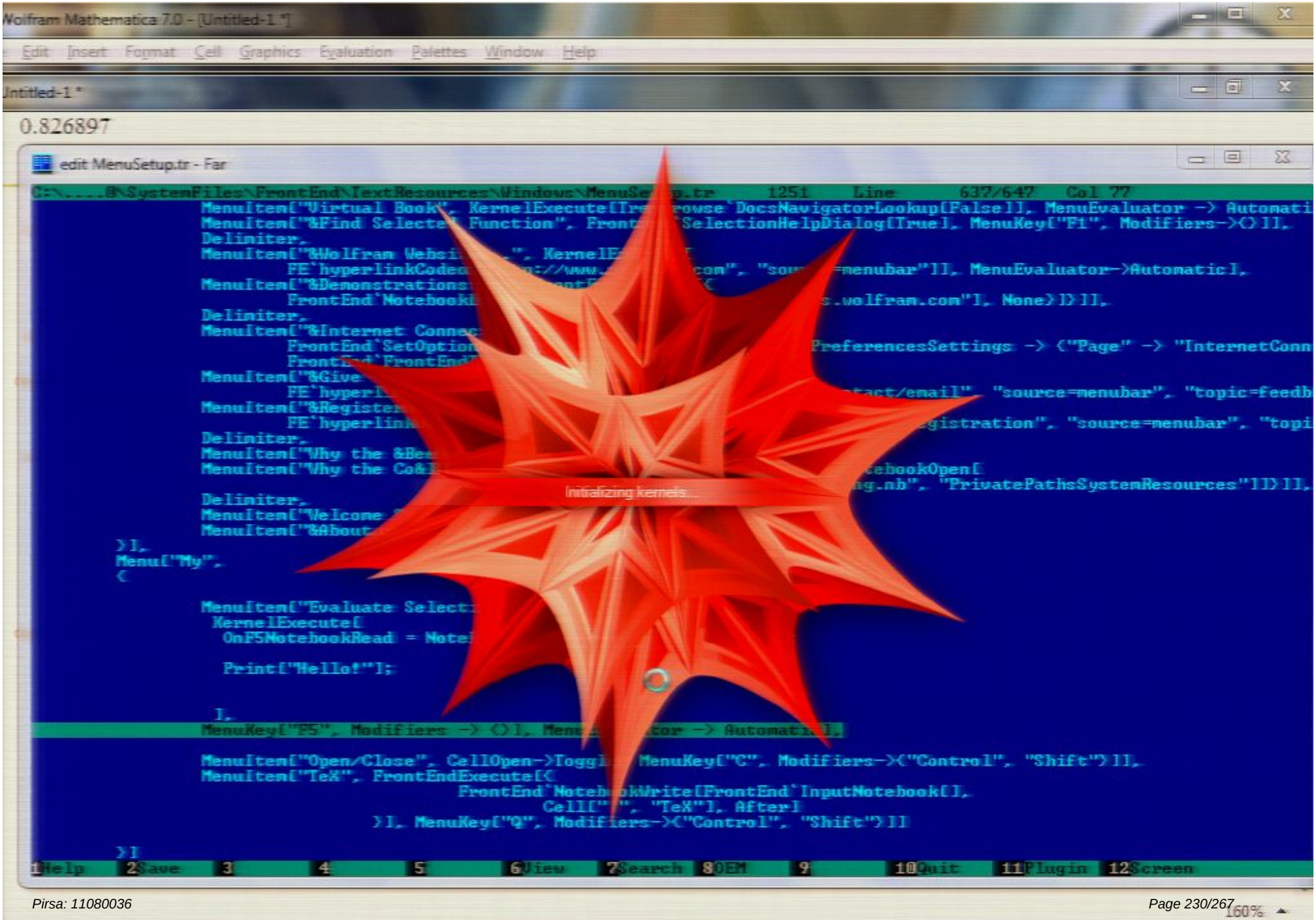
Open[
"PrivatePathsSystemResources"]]}]],
Control", "Shift"}]],
k[],
uit 11Plugin 12Screen
160%


Wolfram Mathematica 7.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help
Untitled-1 *
0.826897
edit MenuSetup.tr - Far
C:\....0\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr 1251 Line 637/647 Col 77
MenuItem["Virtual Book", KernelExecute[TreeBrowse`DocsNavigatorLookup[False]], MenuEvaluator -> Automati
MenuItem["&Find Selected Function", FrontEnd`SelectionHelpDialog[True], MenuKey["F1", Modifiers->{}]],
Deliniter,
MenuItem["&Wolfram Website...", KernelExecute[
FE`hyperlinkCoded["http://www.wolfram.com", "source=menubar"]], MenuEvaluator->Automatic],
MenuItem["&Demonstrations...", FrontEndExecute[{
FrontEnd`NotebookLocate[{URL["http://demonstrations.wolfram.com"], None}]}]],
Deliniter,
MenuItem["&Internet Connectivity...", FrontEndExecute[{
FrontEnd`SetOptions[FrontEnd`$FrontEnd, FrontEnd`PreferencesSettings -> {"Page" -> "InternetConn
FrontEnd`FrontEndToken["PreferencesDialog"]}]],
MenuItem["&Give Feedback...", KernelExecute[
FE`hyperlinkCoded["http://www.wolfram.com/support/contact/email", "source=menubar", "topic=feedb
MenuItem["&Register this Mathematica...", KernelExecute[
FE`hyperlinkCoded["https://user.wolfram.com/portal/ProductRegistration", "source=menubar", "topi
Deliniter,
MenuItem["Why the &Beep?...", "ExplainBeepDialog"],
MenuItem["Why the Co&loring?...", FrontEndExecute[{FrontEnd`NotebookOpen[
FrontEnd`FindFileOnPath["WhyTheColoring.nb", "PrivatePathsSystemResources"]]}]],
Deliniter,
MenuItem["Welcome &Screen...", "WelcomeDialog"],
MenuItem["&About Mathematica...", "AboutBoxDialog"]
}],
Menu["My",
{
MenuItem["Evaluate Selection",
KernelExecute[
OnP5NotebookRead = NotebookRead[EvaluationNotebook[]];
Print["Hello!"];
],
MenuKey["F5", Modifiers -> {}], MenuEvaluator -> Automatic],
MenuItem["Open/Close", CellOpen->Toggle, MenuKey["C", Modifiers->{"Control", "Shift"}]],
MenuItem["TeX", FrontEndExecute[{
FrontEnd`NotebookWrite[FrontEnd`InputNotebook[],
Cell[" ", "TeX"], After]
}], MenuKey["Q", Modifiers->{"Control", "Shift"}]]
}]
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 7.0 - [Untitled-1 *]
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Initializing kernels...
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen

Wolfram Mathematica 8.0 - [111.nb]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

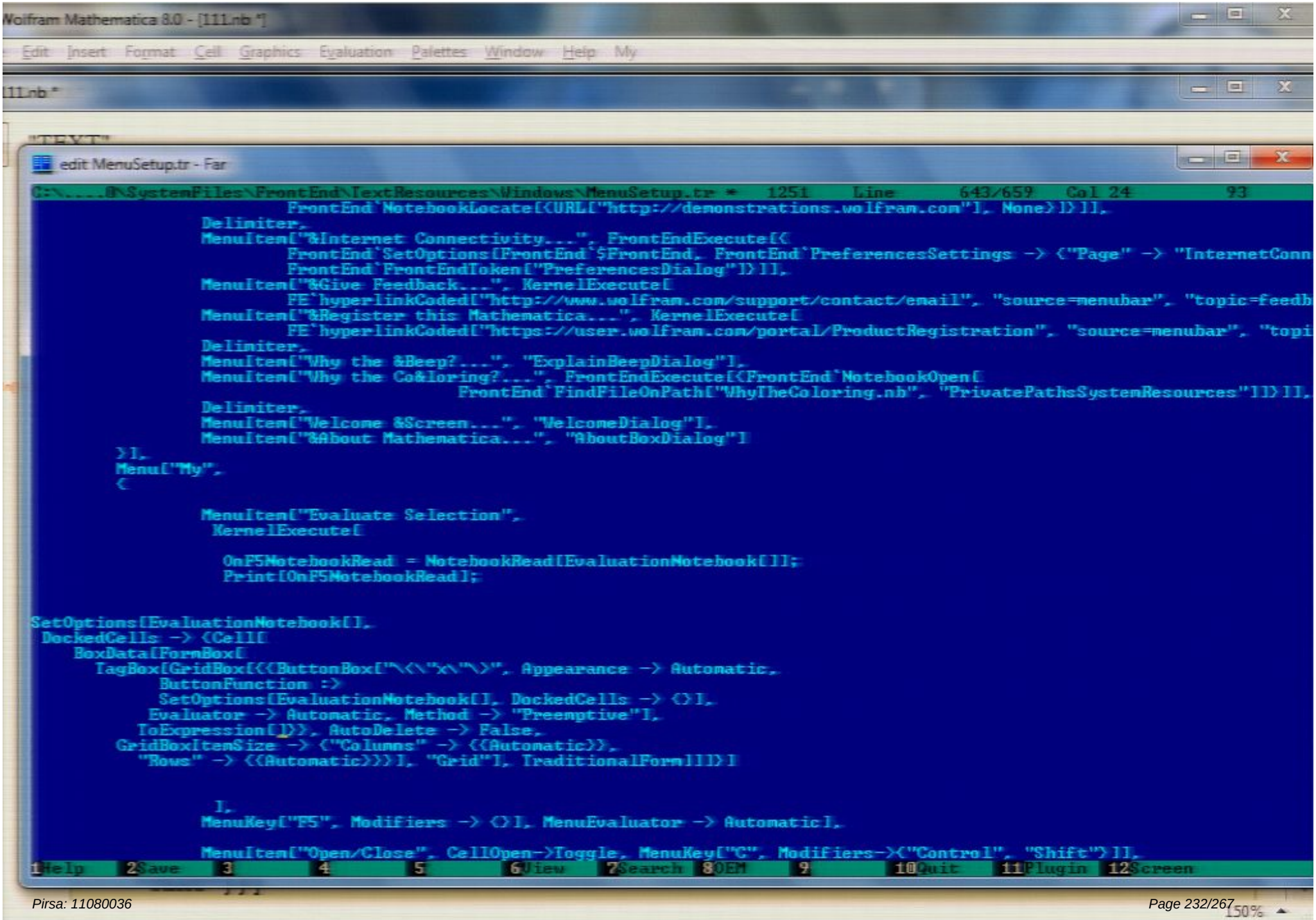
111.nb

"TEXT"

```
SetOptions[EvaluationNotebook[],
 DockedCells →
  {Cell[
    BoxData[
     FormBox[
      TagBox[
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
           ButtonFunction :→ SetOptions[EvaluationNotebook[], DockedCells → {}],
           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
       GridBox[{{ButtonBox["\<\"x\"\>", Appearance → Automatic,
           ButtonFunction :→ SetOptions[EvaluationNotebook[], DockedCells → {}],
           Evaluator → Automatic, Method → "Preemptive"], "\<\"TEXT\"\>"}},
        AutoDelete → False, GridBoxItemSize →
         {"Columns" → {{Automatic}}, "Rows" → {{Automatic}}}], "Grid"],
      TraditionalForm]]]}]
```

```
Grid[{{Button["x", SetOptions[EvaluationNotebook[], DockedCells → {}]],
   "TEXT"}}]
```


150%


Wolfram Mathematica 8.0 - [111.nb *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
111.nb *
"TEXT"
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C:\....0\SystemFiles\FrontEnd\TextResources\Windows\MenuSetup.tr * 1251 Line 643/659 Col 24 93
FrontEnd`NotebookLocate[{URL["http://demonstrations.wolfram.com"], None}]}]],
Deliniter,
MenuItem["&Internet Connectivity...", FrontEndExecute[{
FrontEnd`SetOptions[FrontEnd`$FrontEnd, FrontEnd`PreferencesSettings -> {"Page" -> "InternetConn
FrontEnd`FrontEndToken["PreferencesDialog"]}]],
MenuItem["&Give Feedback...", KernelExecute[
FE`hyperlinkCoded["http://www.wolfram.com/support/contact/email", "source=menubar", "topic=feedb
MenuItem["&Register this Mathematica...", KernelExecute[
FE`hyperlinkCoded["https://user.wolfram.com/portal/ProductRegistration", "source=menubar", "topi
Deliniter,
MenuItem["Why the &Beep?...", "ExplainBeepDialog"],
MenuItem["Why the Co&loring?...", FrontEndExecute[{FrontEnd`NotebookOpen[
FrontEnd`FindFileOnPath["WhyTheColoring.nb", "PrivatePathsSystemResources"]]}]],
Deliniter,
MenuItem["Welcome &Screen...", "WelcomeDialog"],
MenuItem["&About Mathematica...", "AboutBoxDialog"]
}],
Menu["My",
{
MenuItem["Evaluate Selection",
KernelExecute[
OnF5NotebookRead = NotebookRead[EvaluationNotebook[]];
Print[OnF5NotebookRead];
SetOptions[EvaluationNotebook[],
DockedCells -> {Cell[
BoxData[FormBox[
TagBox[GridBox[{{ButtonBox["\(\"x\"\)", Appearance -> Automatic,
ButtonFunction :>
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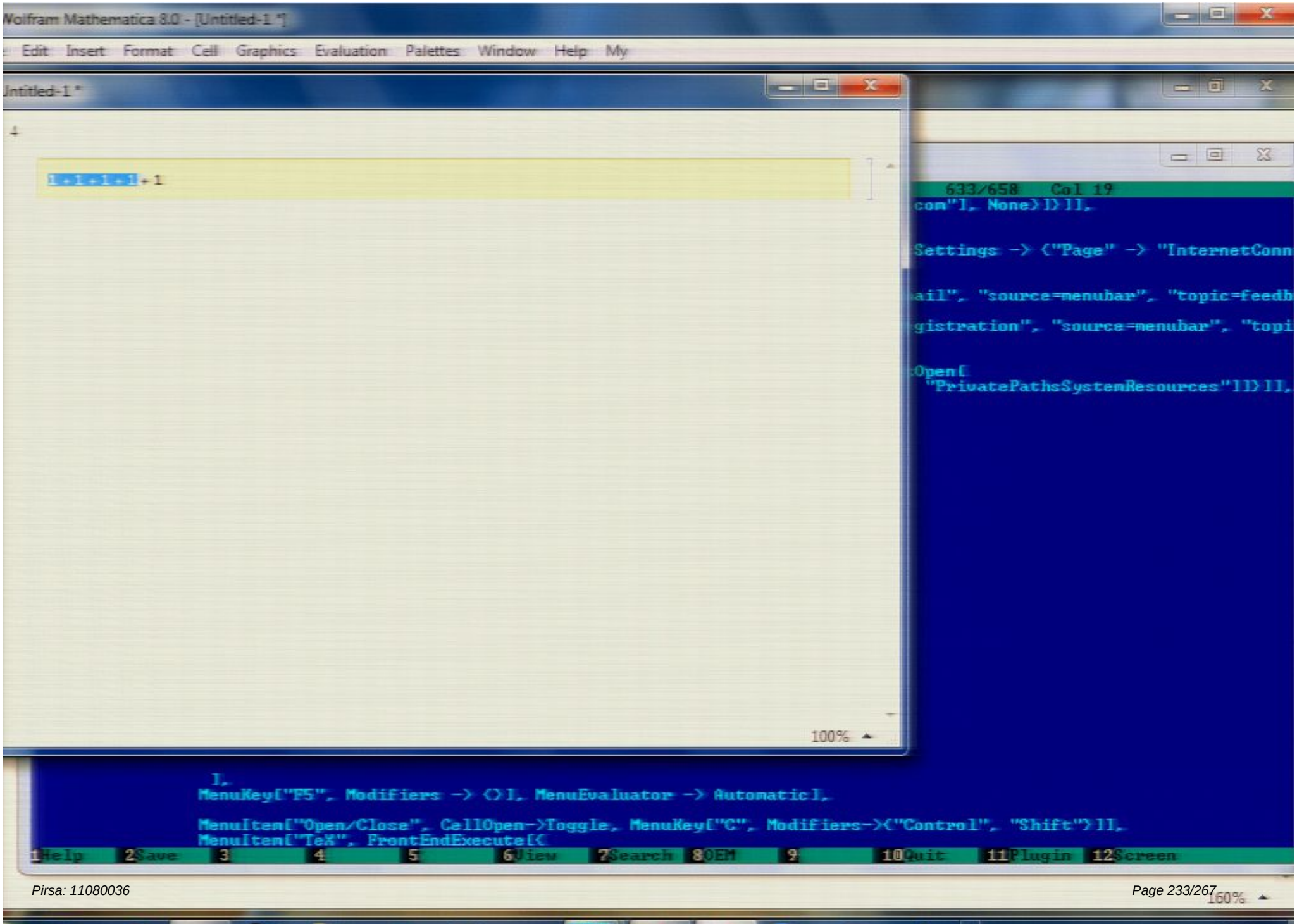
Evaluator -> Automatic, Method -> "Preemptive"],
ToExpression[]}}, AutoDelete -> False,
GridBoxItemSize -> {"Columns" -> {{Automatic}},
"Rows" -> {{Automatic}}}], "Grid"], TraditionalForm]]}]
],
MenuKey["F5", Modifiers -> {}], MenuEvaluator -> Automatic],
MenuItem["Open/Close", CellOpen->Toggle, MenuKey["C", Modifiers->{"Control", "Shift"}]],
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1 *
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con"], None}]}]],
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ail", "source=menubar", "topic=feedb
gistration", "source=menubar", "topi
Open[
"PrivatePathsSystemResources"]]}]],
],
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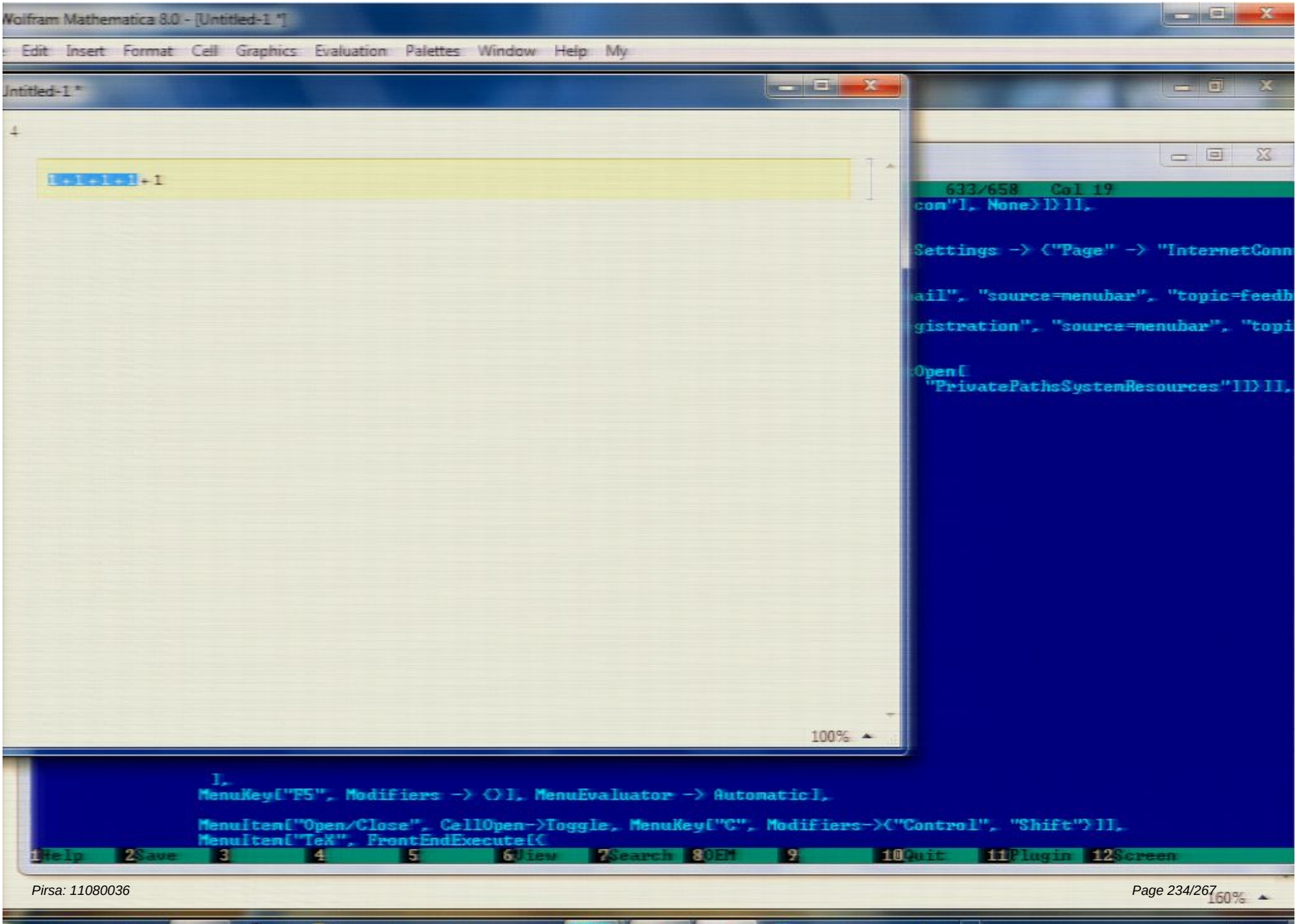
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
160%


Wolfram Mathematica 8.0 - [Untitled-1 *]
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com"], None}]}]],
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"PrivatePathsSystemResources"]]}]],
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MenuItem["Open/Close", CellOpen->Toggle, MenuKey["C", Modifiers->{"Control", "Shift"}]],
MenuItem["TeX", FrontEndExecute[{
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
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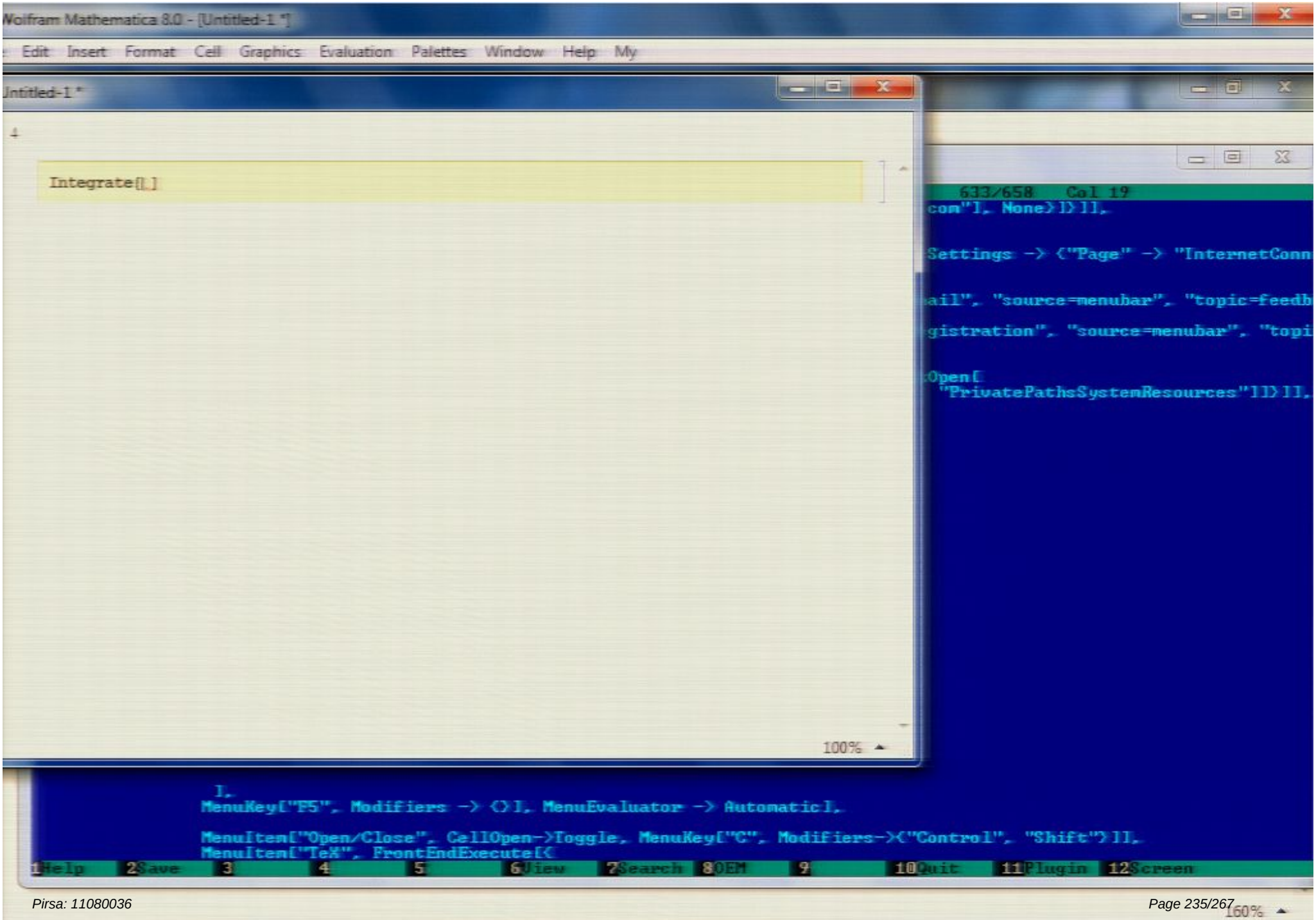
Wolfram Mathematica 8.0 - [Untitled-1 *]
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Untitled-1 *
Integrate[]
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com"], None}]}]],
Settings -> {"Page" -> "InternetConn
ail", "source=menubar", "topic=feedb
gistration", "source=menubar", "topi
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"PrivatePathsSystemResources"]]}]],
],
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MenuItem["Open/Close", CellOpen->Toggle, MenuKey["C", Modifiers->{"Control", "Shift"}]],
MenuItem["TeX", FrontEndExecute[{
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
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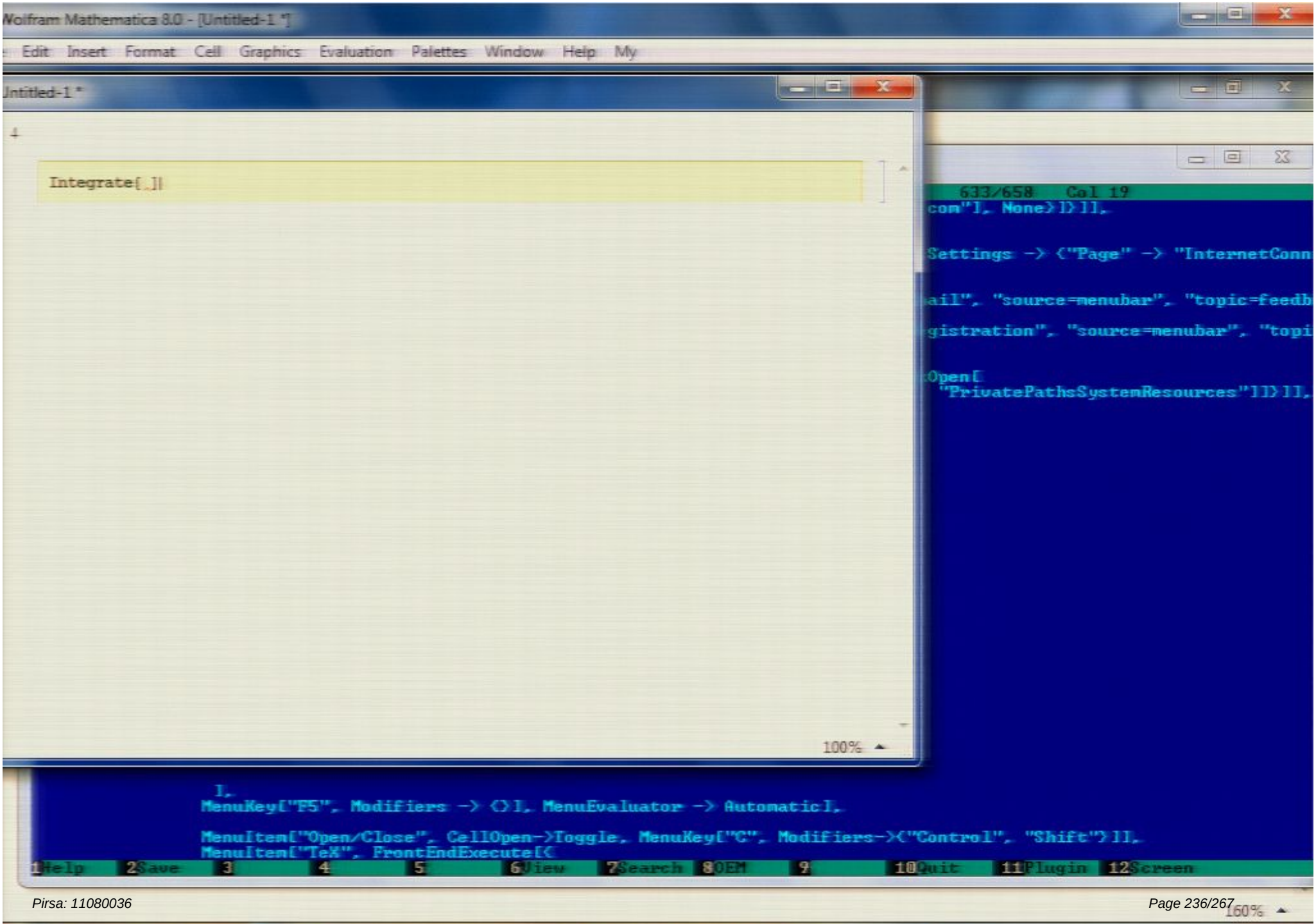
Wolfram Mathematica 8.0 - [Untitled-1 *]
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Untitled-1 *
Integrate[,]
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com"], None}]}]],
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Open[
"PrivatePathsSystemResources"]]}]],
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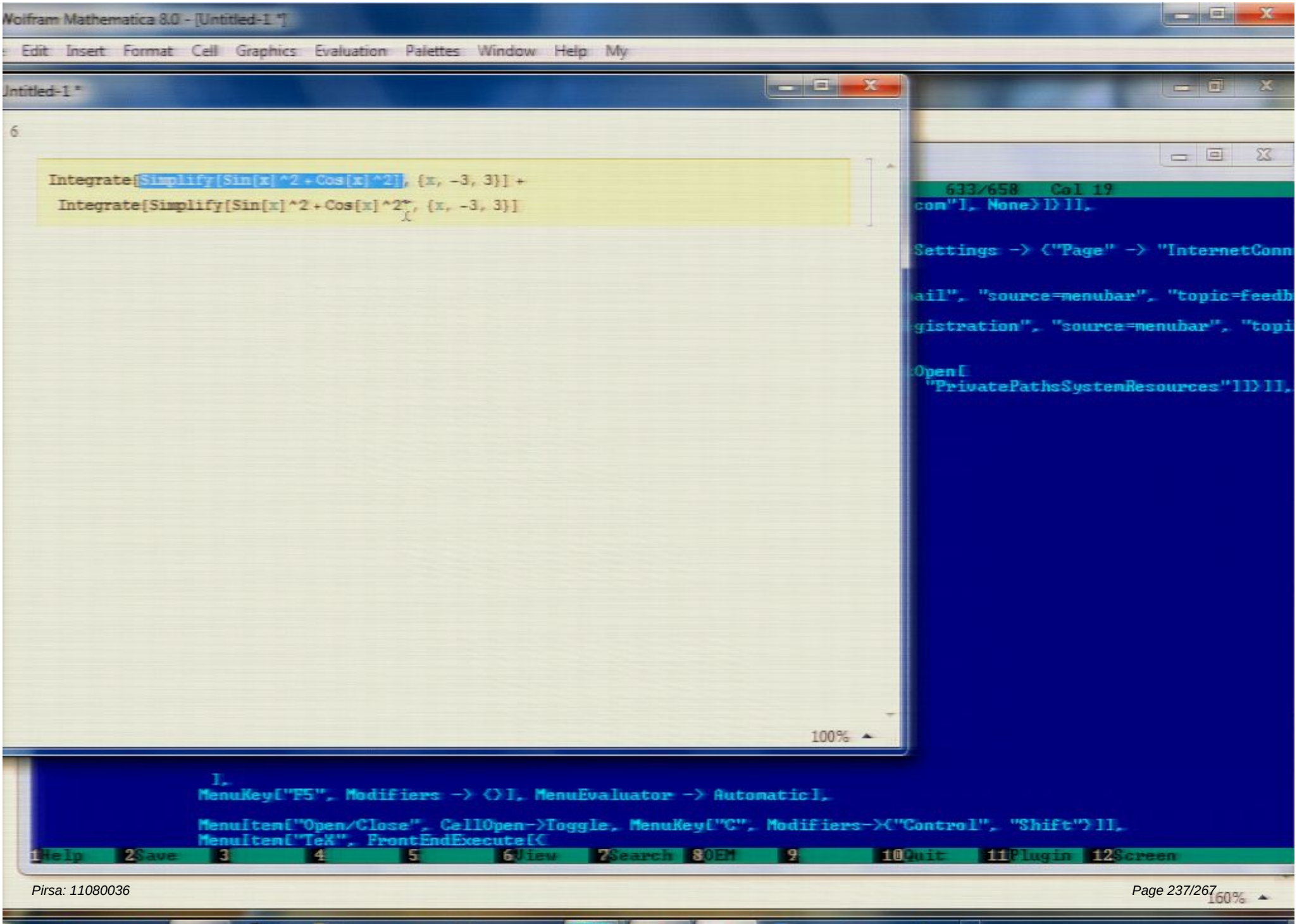
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
160%


Wolfram Mathematica 8.0 - [Untitled-1 *]
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Untitled-1 *
6
Integrate[Simplify[Sin[x]^2 + Cos[x]^2], {x, -3, 3}] +
Integrate[Simplify[Sin[x]^2 + Cos[x]^2], {x, -3, 3}]
100%
633/658 Col 19
con"], None}]}]],
Settings -> {"Page" -> "InternetConn
ail", "source=menubar", "topic=feedb
gistration", "source=menubar", "topi
Open[
"PrivatePathsSystemResources"]}]],
],
MenuKey["F5", Modifiers -> {}], MenuEvaluator -> Automatic],
MenuItem["Open/Close", CellOpen->Toggle, MenuKey["C", Modifiers->{"Control", "Shift"}]],
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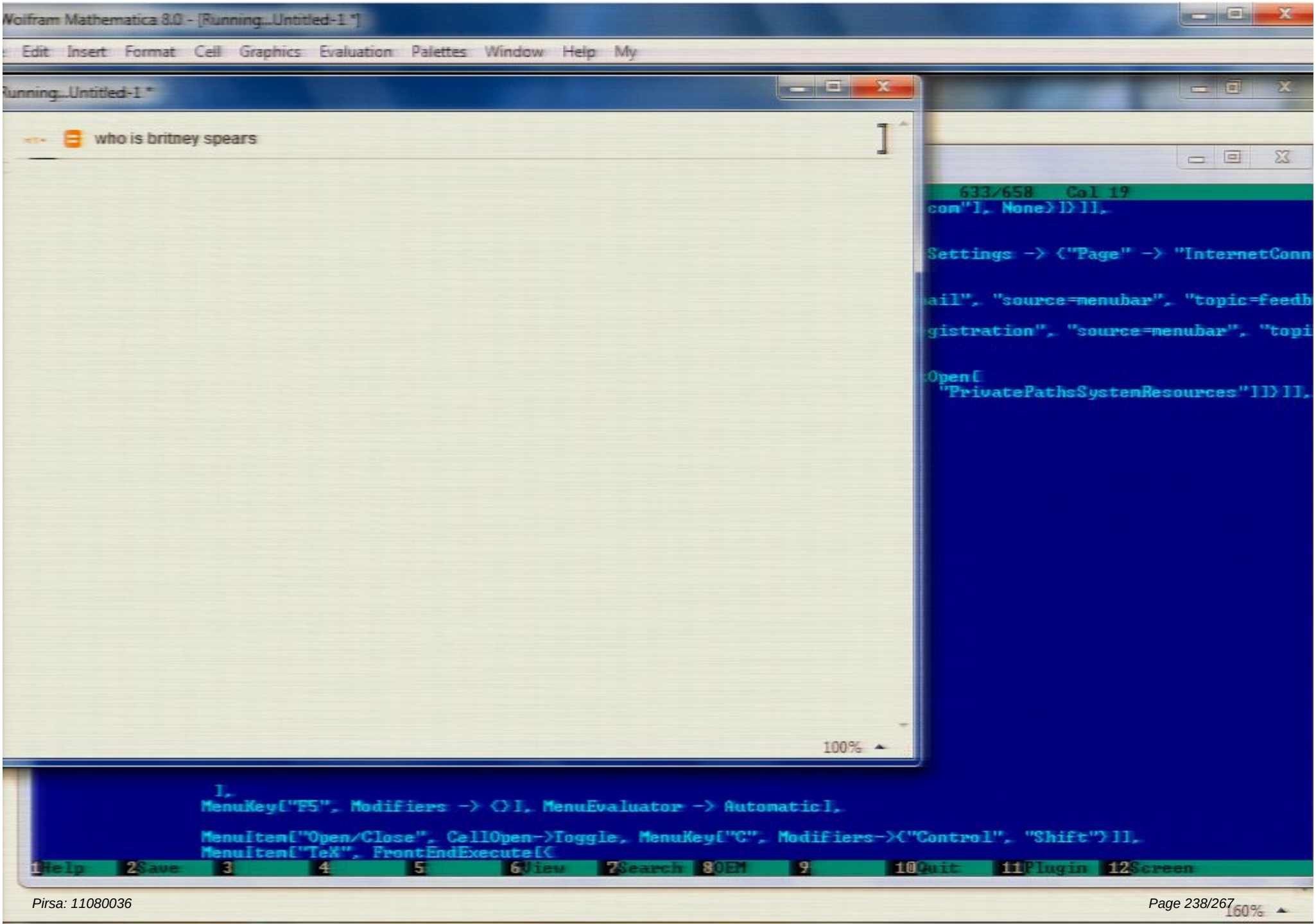
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
160%


Wolfram Mathematica 8.0 - [Running...Untitled-1 *]
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Running...Untitled-1 *
who is britney spears
100%
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com"], None}]}]],
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ail", "source=menubar", "topic=feedb
gistration", "source=menubar", "topi
Open[
"PrivatePathsSystemResources"]]}]],
],
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MenuItem["Open/Close", CellOpen->Toggle, MenuKey["C", Modifiers->{"Control", "Shift"}]],
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1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
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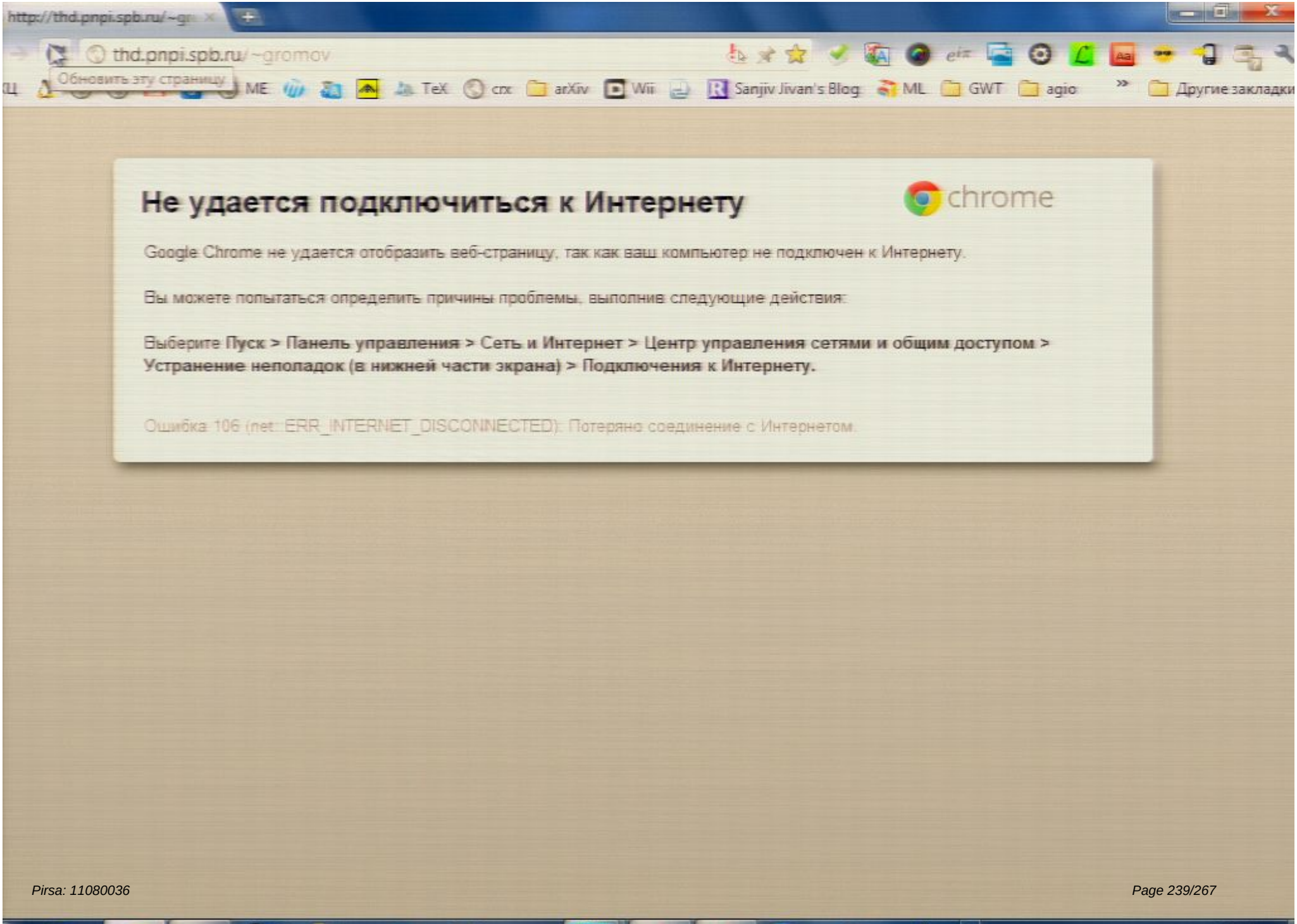
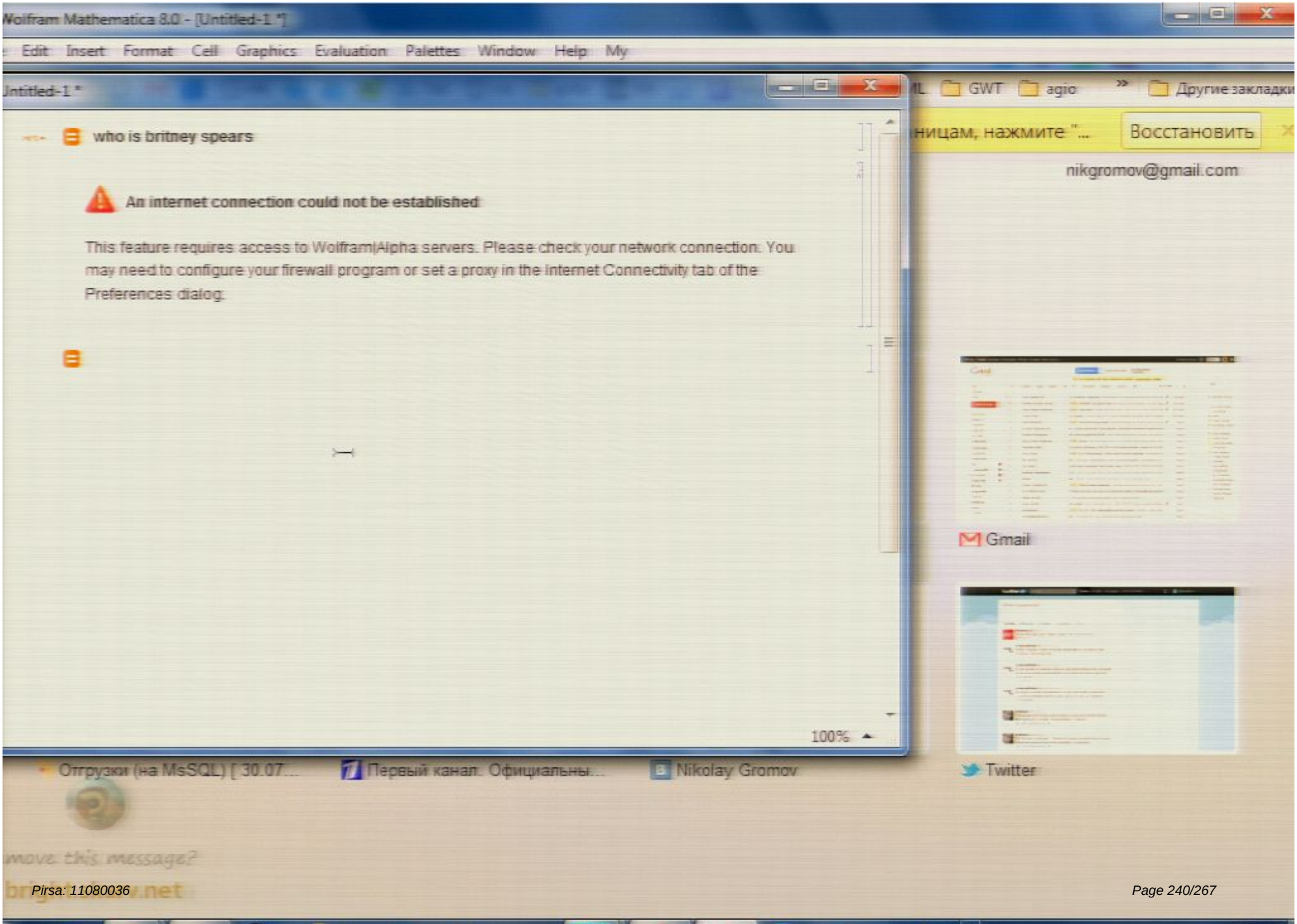

http://thd.pnpi.spb.ru/~gr
thd.pnpi.spb.ru/~gromov
Обновить эту страницу
ME
TeX
crx
arXiv
Wii
Sanjiv Jivan's Blog
ML
GWT
agio
Другие закладки
Не удается подключиться к Интернету
chrome
Google Chrome не удается отобразить веб-страницу, так как ваш компьютер не подключен к Интернету.
Вы можете попытаться определить причины проблемы, выполнив следующие действия:
Выберите Пуск > Панель управления > Сеть и Интернет > Центр управления сетями и общим доступом > Устранение неполадок (в нижней части экрана) > Подключения к Интернету.
Ошибка 106 (net::ERR_INTERNET_DISCONNECTED): Потеряно соединение с Интернетом.


Wolfram Mathematica 8.0 - [Untitled-1 *]
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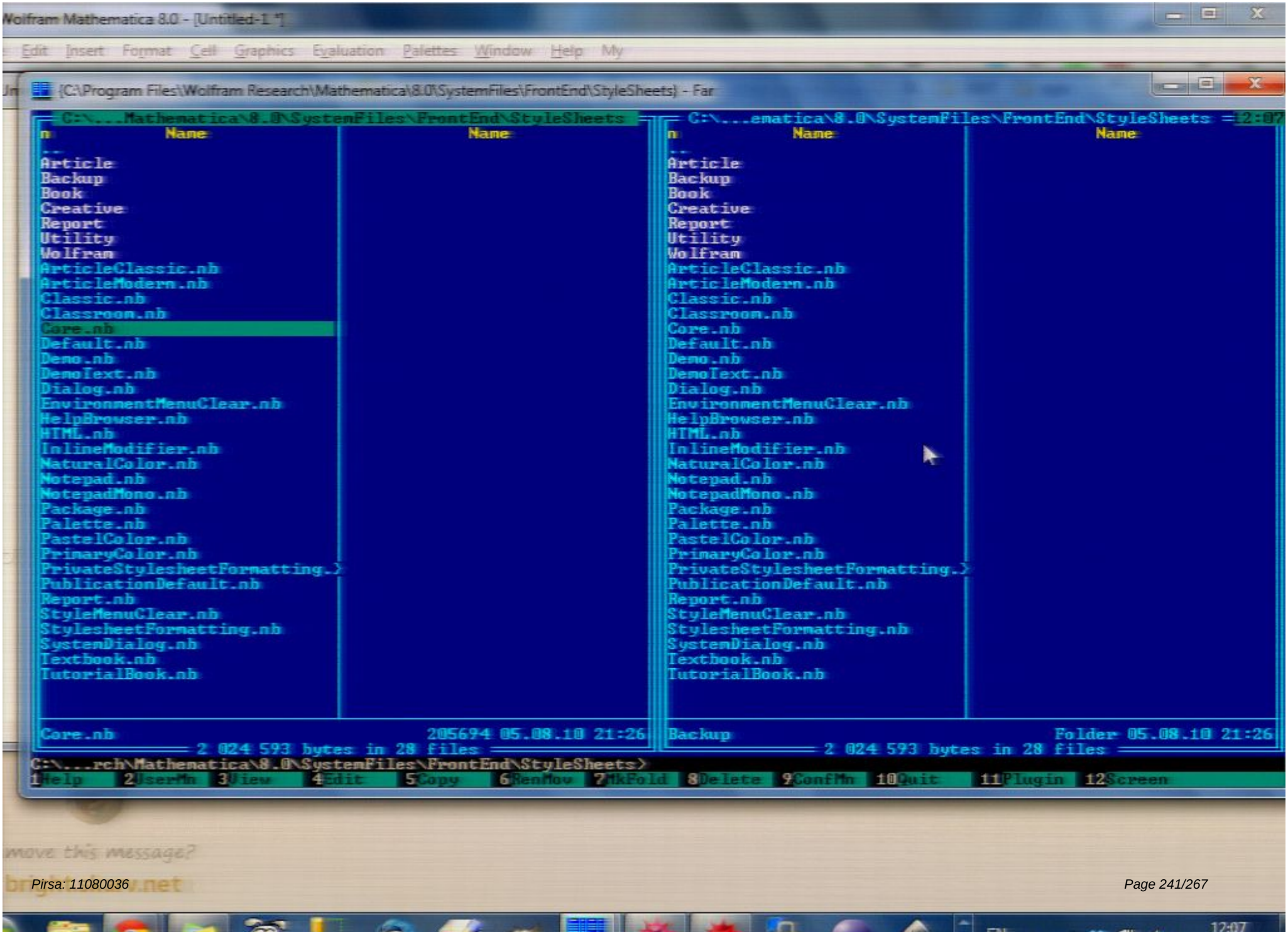
Untitled-1 *
who is britney spears
An internet connection could not be established
This feature requires access to Wolfram|Alpha servers. Please check your network connection. You may need to configure your firewall program or set a proxy in the Internet Connectivity tab of the Preferences dialog.
100%
GWT
agio
Другие закладки
Восстановить
nikgromov@gmail.com
Gmail
Twitter
Отгрузки (на MsSQL) [30.07...
Первый канал. Официальны...
Nikolay Gromov


Wolfram Mathematica 8.0 - [Untitled-1 *]
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{C:\Program Files\Wolfram Research\Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets} - Far
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Article
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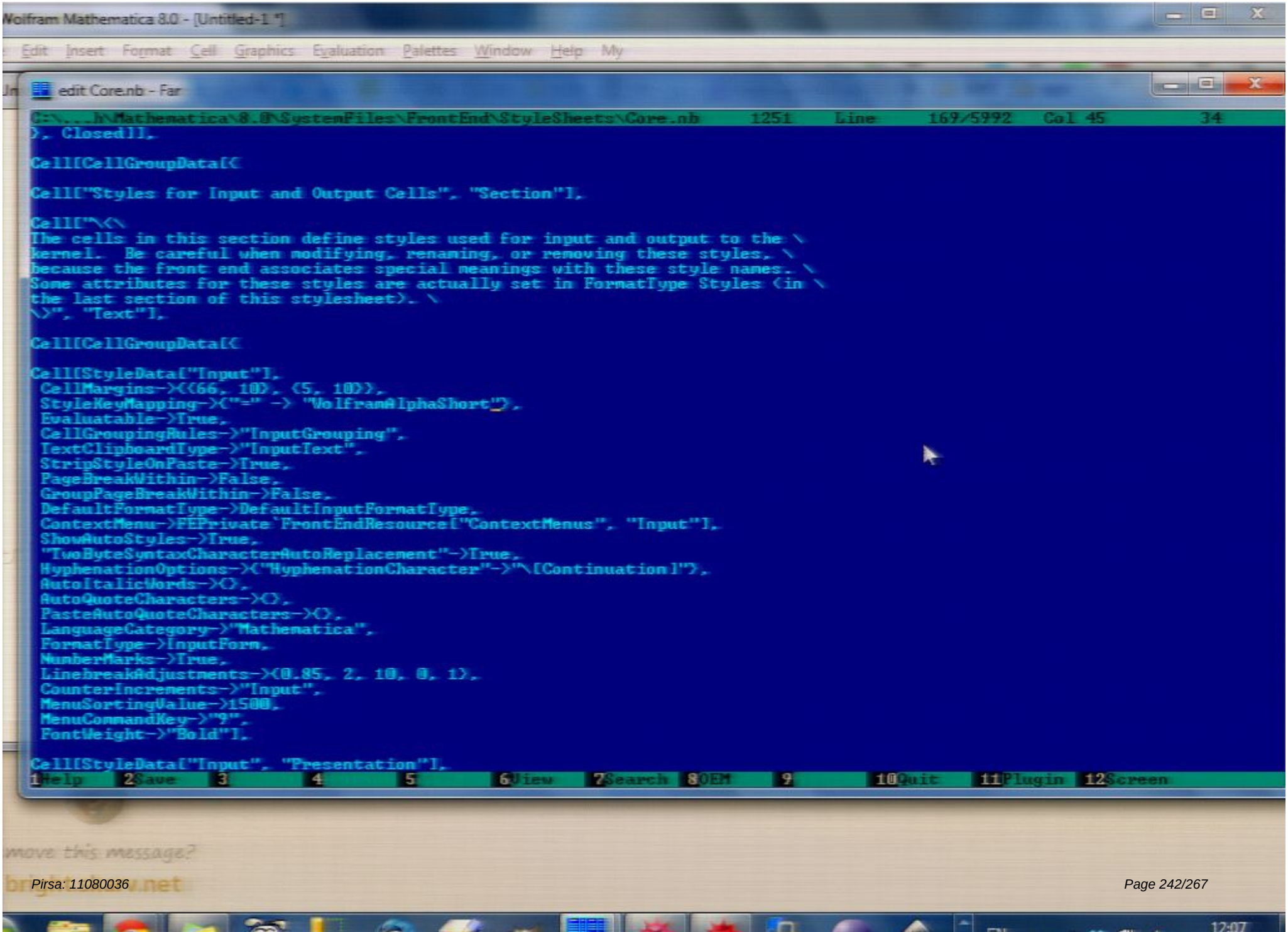
ArticleClassic.nb
ArticleModern.nb
Classic.nb
Classroom.nb
Core.nb
Default.nb
Demo.nb
DemoText.nb
Dialog.nb
EnvironmentMenuClear.nb
HelpBrowser.nb
HTML.nb
InlineModifier.nb
NaturalColor.nb
Notepad.nb
NotepadMono.nb
Package.nb
Palette.nb
PastelColor.nb
PrimaryColor.nb
PrivateStylesheetFormatting.
PublicationDefault.nb
Report.nb
StyleMenuClear.nb
StylesheetFormatting.nb
SystemDialog.nb
Textbook.nb
TutorialBook.nb
Core.nb 205694 05.08.10 21:26
Backup Folder 05.08.10 21:26
2 024 593 bytes in 28 files
2 024 593 bytes in 28 files
C:\...rch\Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets>
1Help 2UserMn 3View 4Edit 5Copy 6RenMov 7MkFold 8Delete 9ConfMn 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
edit Core.nb - Far
C:\...h\Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets\Core.nb 1251 Line 169/5992 Col 45 34
}, Closed]],
Cell[CellGroupData[{
Cell["Styles for Input and Output Cells", "Section"],
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The cells in this section define styles used for input and output to the \
kernel. Be careful when modifying, renaming, or removing these styles. \
because the front end associates special meanings with these style names. \
Some attributes for these styles are actually set in FormatType Styles (in \
the last section of this stylesheet). \
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PasteAutoQuoteCharacters->{},
LanguageCategory->"Mathematica",
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CounterIncrements->"Input",
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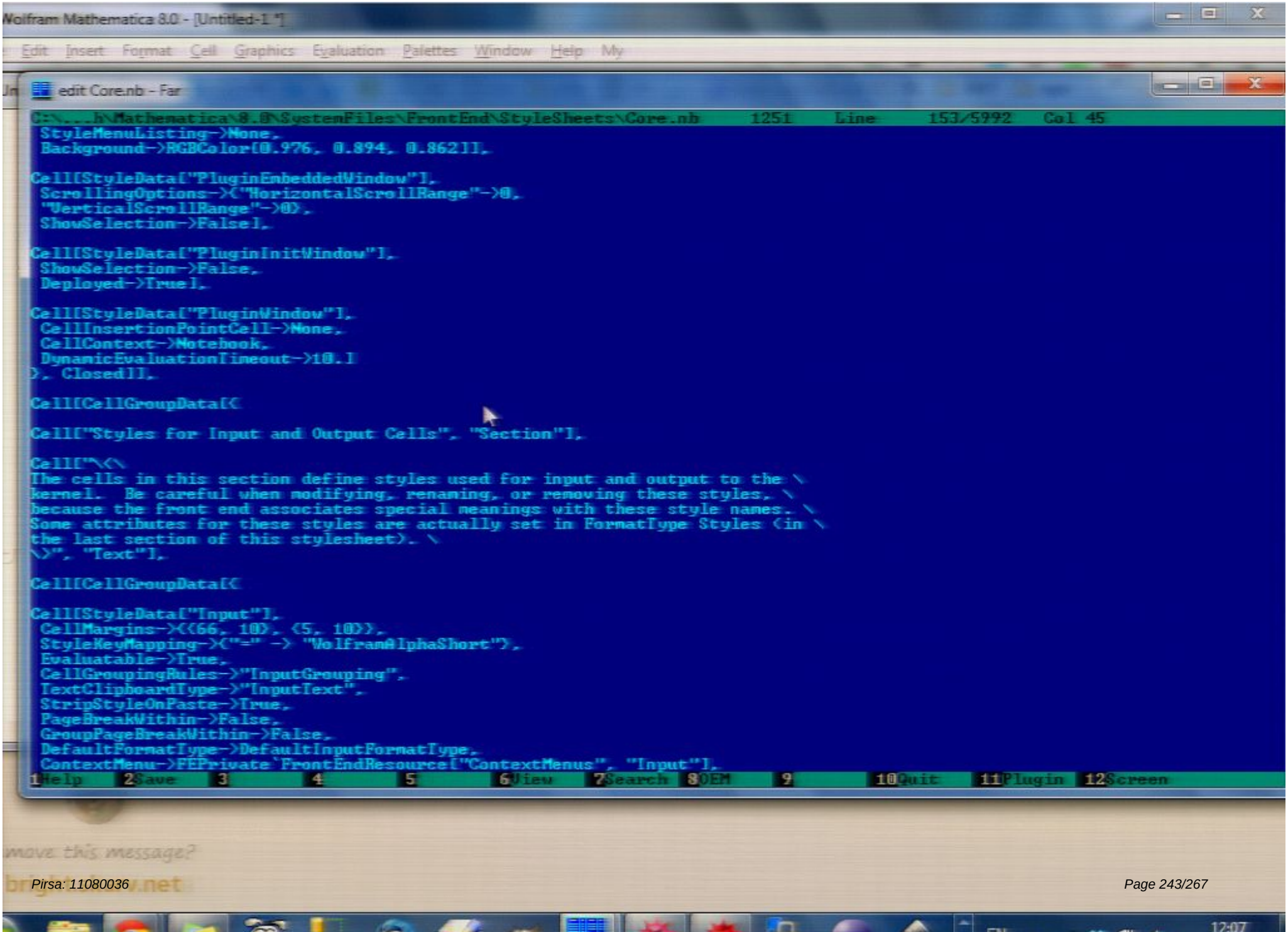
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
edit Core.nb - Far
C:\...h\Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets\Core.nb 1251 Line 153/5992 Col 45
StyleMenuListing->None,
Background->RGBColor[0.976, 0.894, 0.862]],
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ShowSelection->False,
Deployed->True],
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DynamicEvaluationTimeout->10.]
}, Closed]],
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The cells in this section define styles used for input and output to the \
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PageBreakWithin->False,
GroupPageBreakWithin->False,
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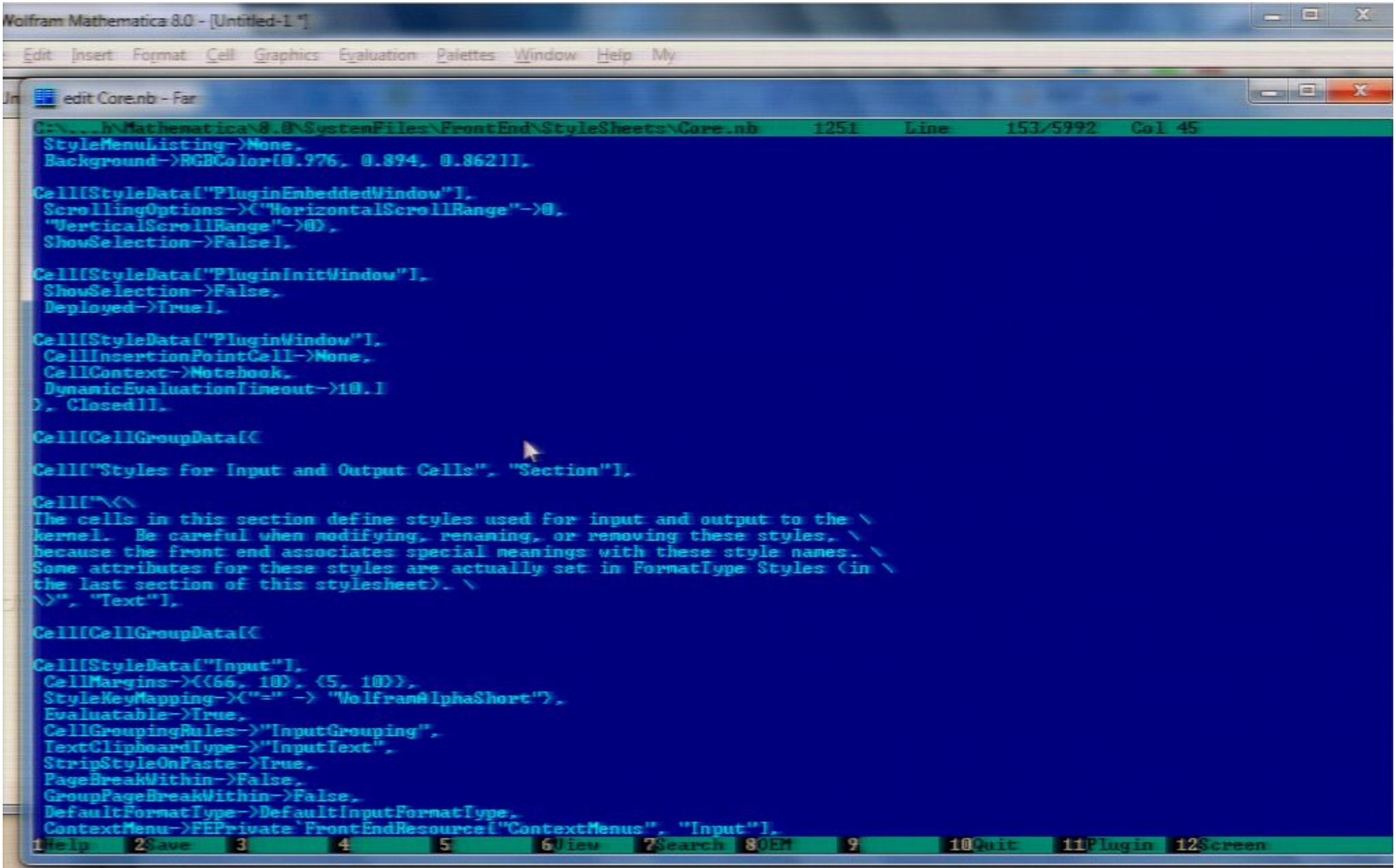
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-1 *]
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C:\...h\Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets\Core.nb 1251 Line 153/5992 Col 45
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Background->RGBColor[0.976, 0.894, 0.862]],
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The cells in this section define styles used for input and output to the \
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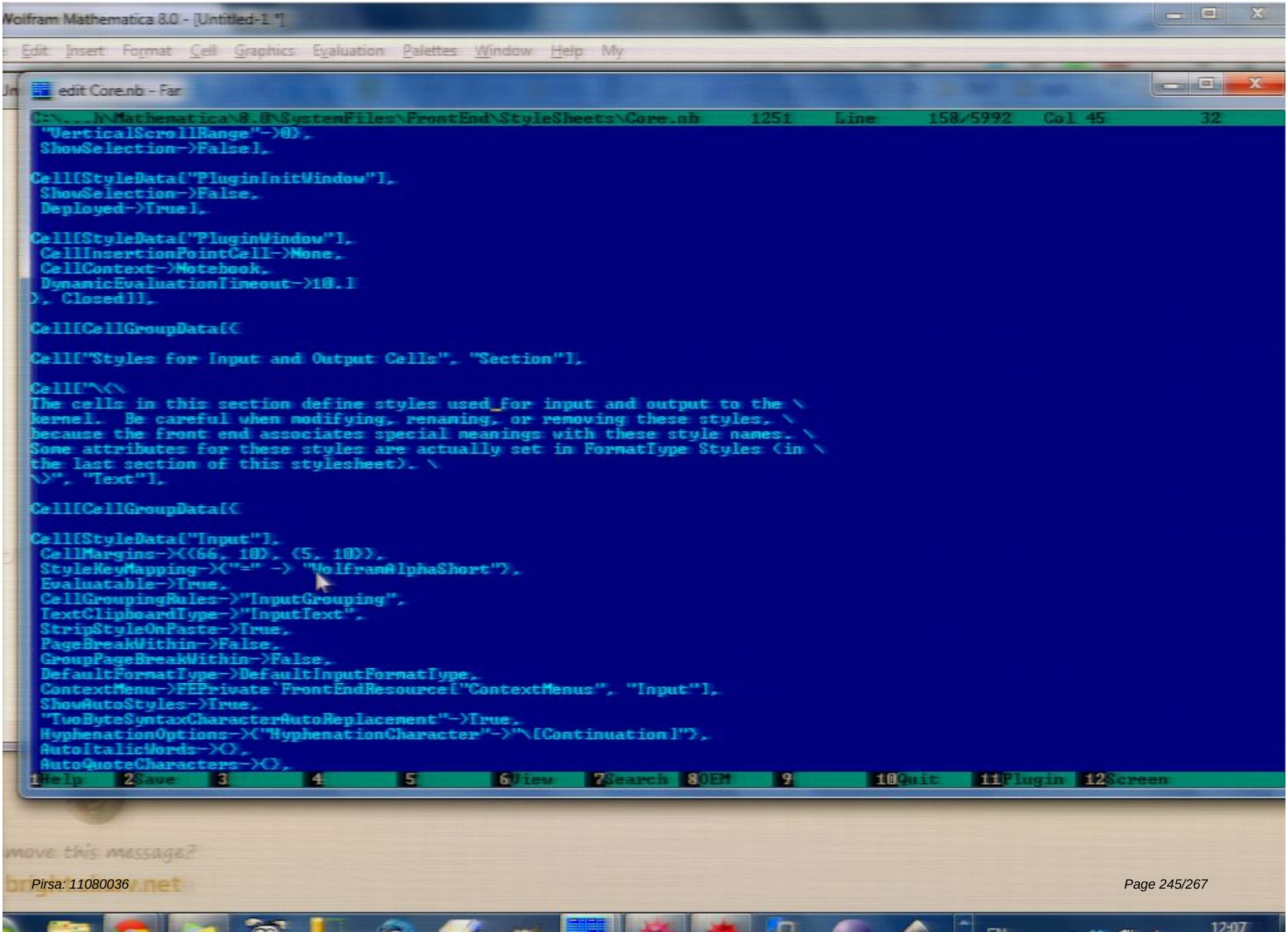
Wolfram Mathematica 8.0 - [Untitled-1 *]
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edit Core.nb - Far
C:\...h\Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets\Core.nb 1251 Line 158/5992 Col 45 32
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}, Closed]],
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The cells in this section define styles used for input and output to the \
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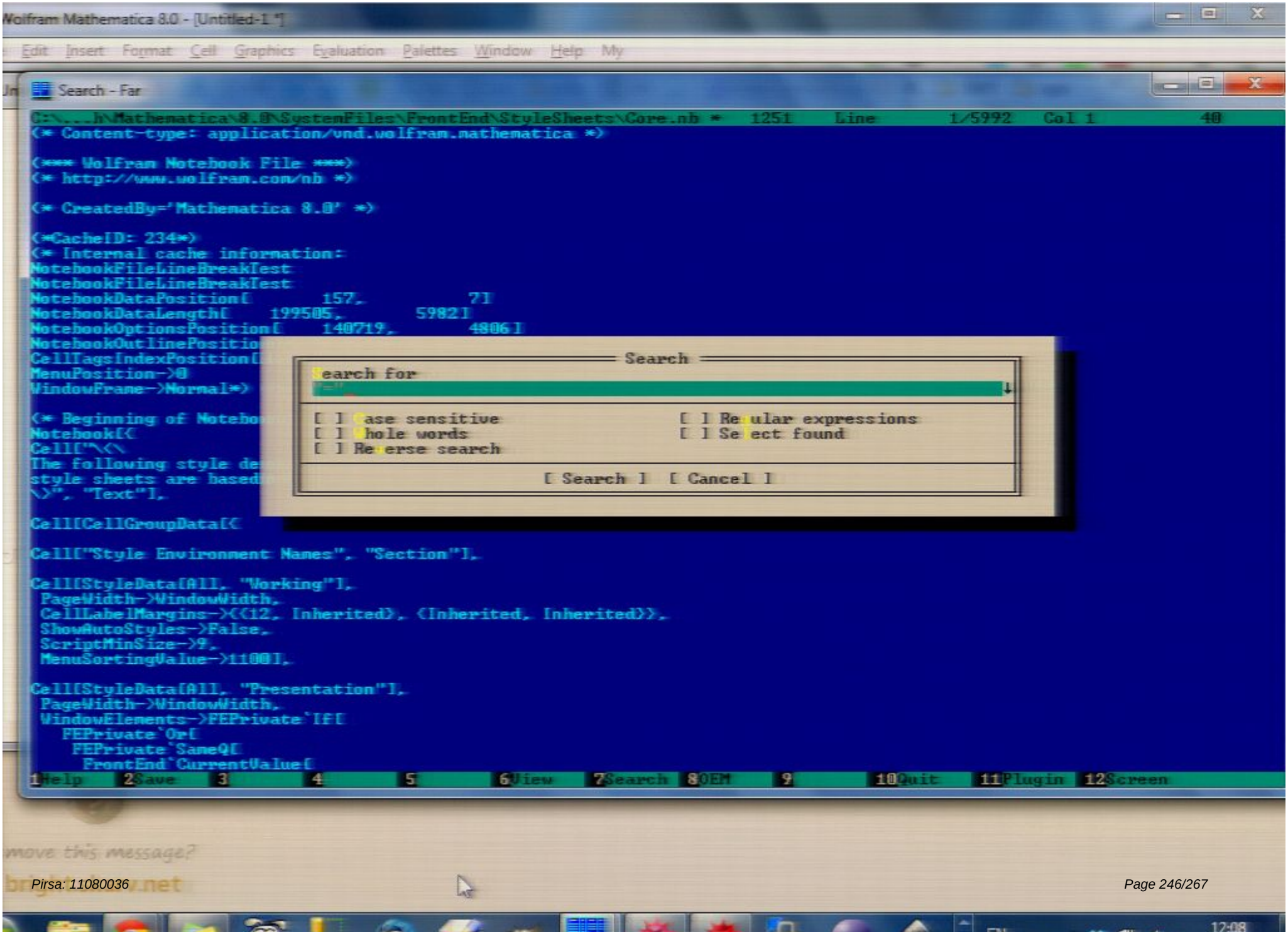
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-1 *]
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(*** Wolfram Notebook File ***)
(* http://www.wolfram.com/nb *)
(* CreatedBy='Mathematica 8.0' *)
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Search
Search for
[ ] Case sensitive
[ ] Whole words
[ ] Reverse search
[ ] Regular expressions
[ ] Select found
[Search] [Cancel]
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The following style de
style sheets are based
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FEPrivate`SameQ[
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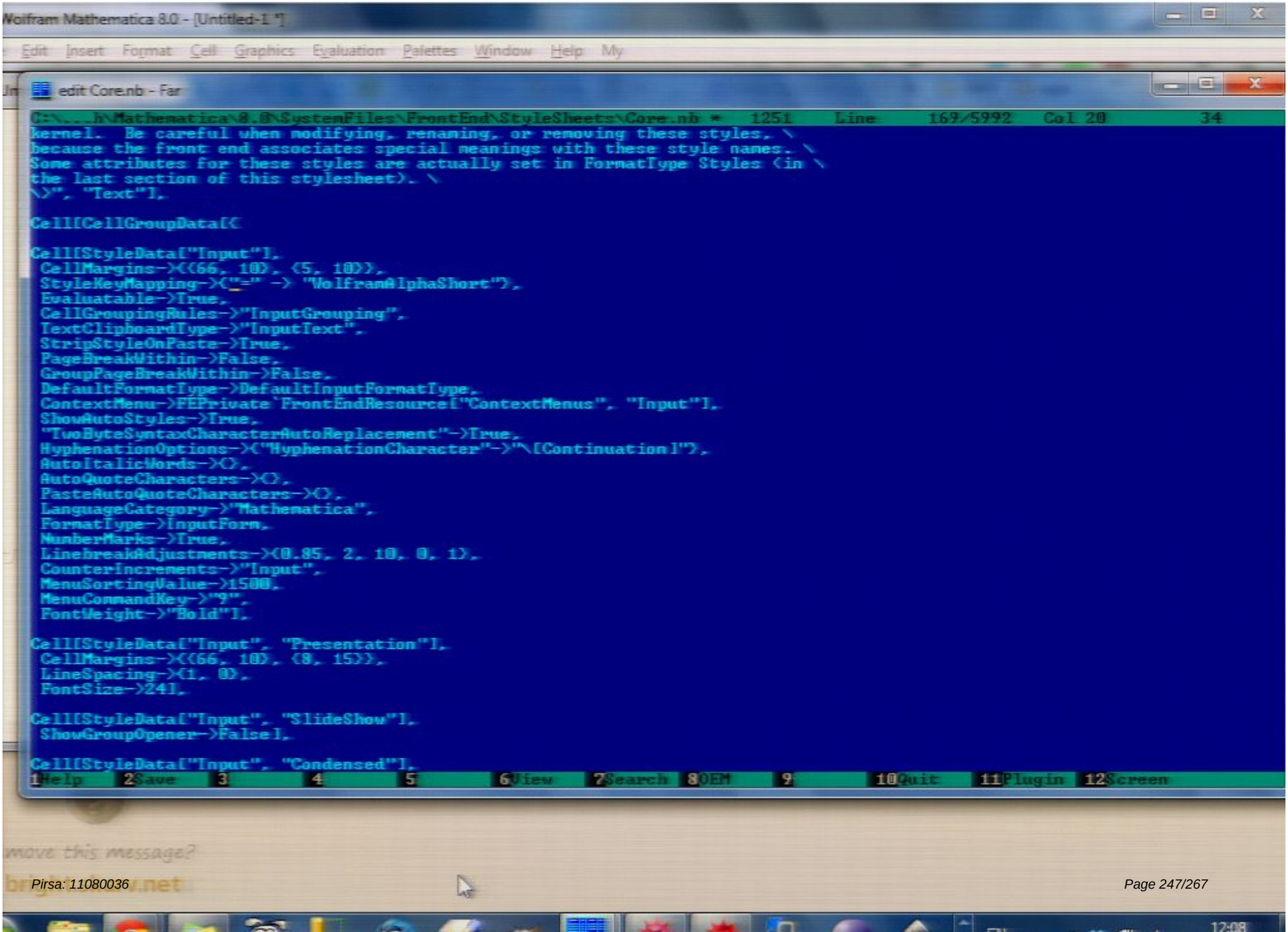
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
edit Core.nb - Far
C:\...h\Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets\Core.nb * 1251 Line 169/5992 Col 20 34
kernel. Be careful when modifying, renaming, or removing these styles, \
because the front end associates special meanings with these style names. \
Some attributes for these styles are actually set in FormatType Styles (in \
the last section of this stylesheet). \
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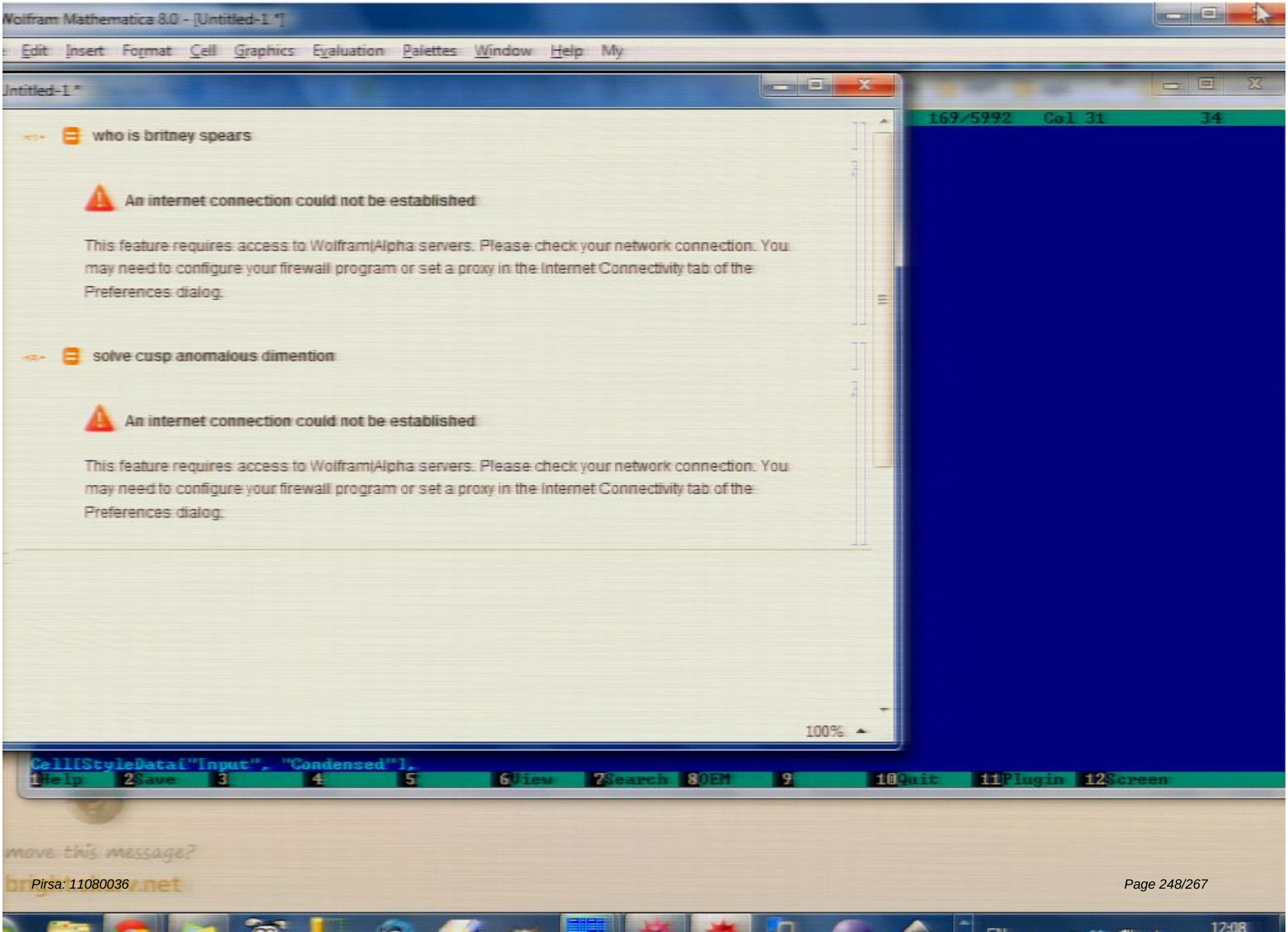
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1 *
who is britney spears
An internet connection could not be established
This feature requires access to Wolfram|Alpha servers. Please check your network connection. You may need to configure your firewall program or set a proxy in the Internet Connectivity tab of the Preferences dialog.
solve cusp anomalous dimention
An internet connection could not be established
This feature requires access to Wolfram|Alpha servers. Please check your network connection. You may need to configure your firewall program or set a proxy in the Internet Connectivity tab of the Preferences dialog.
100%
169/5992 Col 31 34
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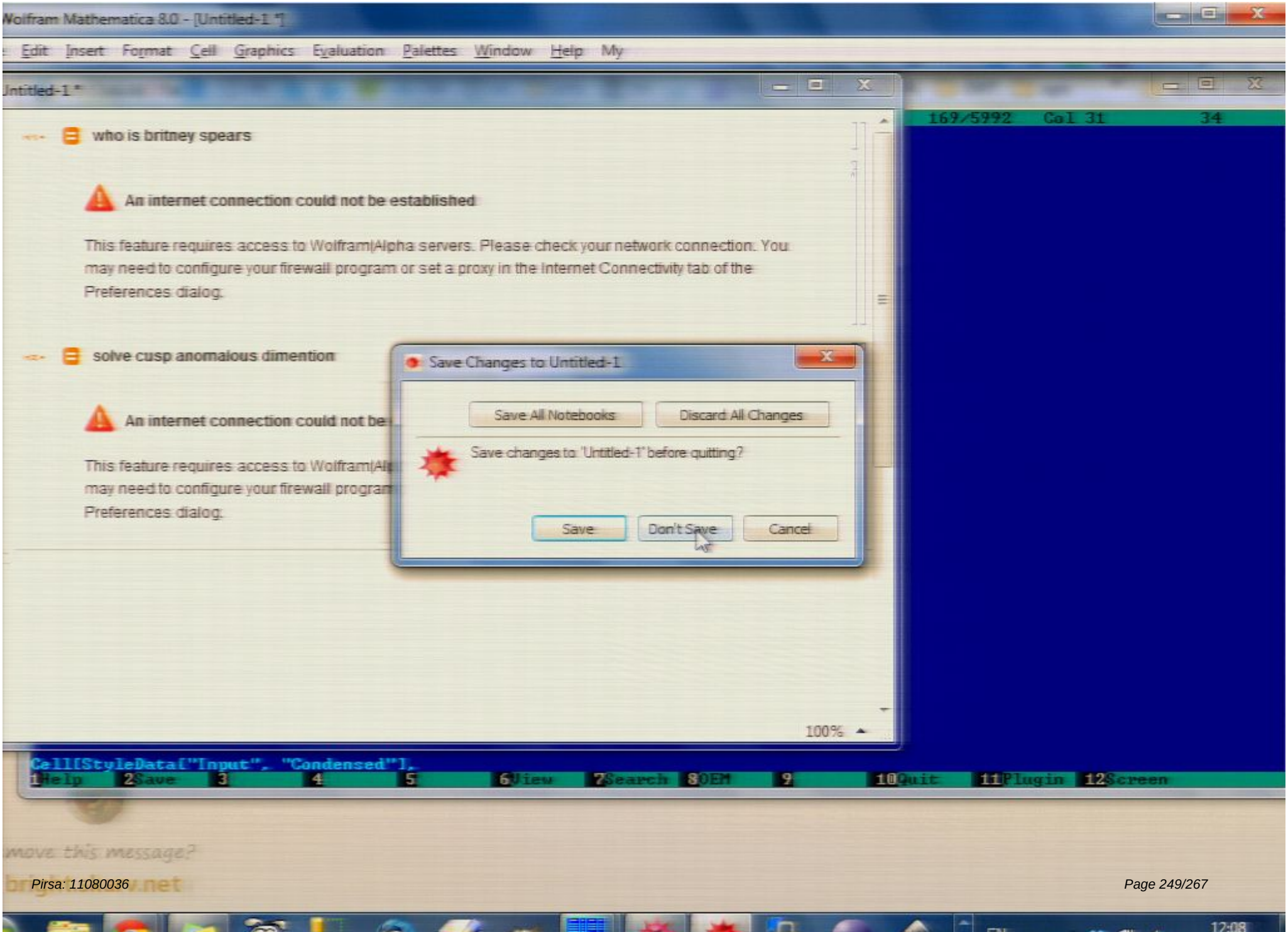
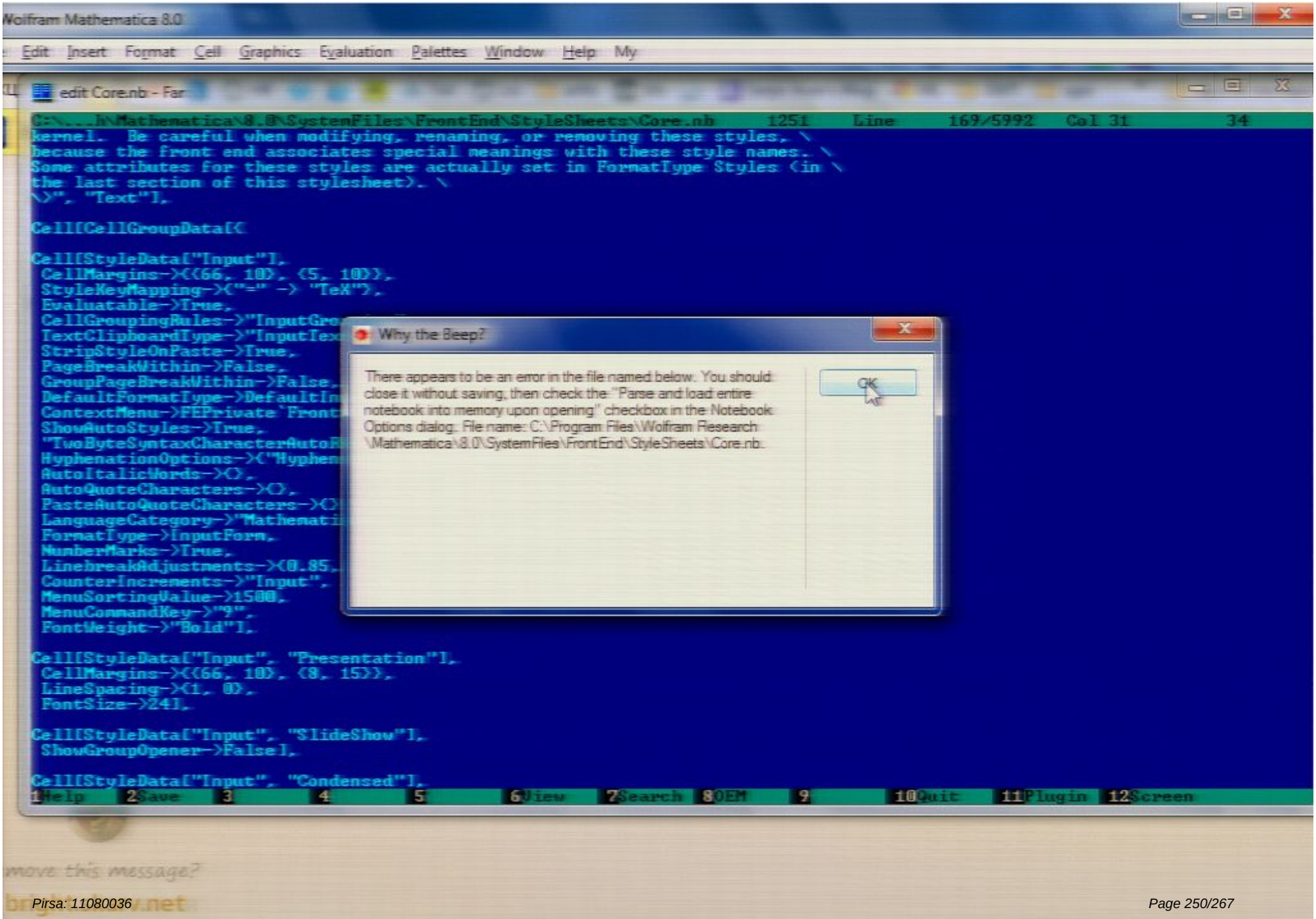
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1 *
who is britney spears
An internet connection could not be established
This feature requires access to Wolfram|Alpha servers. Please check your network connection. You may need to configure your firewall program or set a proxy in the Internet Connectivity tab of the Preferences dialog.
solve cusp anomalous dimention
An internet connection could not be
This feature requires access to Wolfram|Alp
may need to configure your firewall program
Preferences dialog.
Save Changes to Untitled-1
Save All Notebooks
Discard All Changes
Save changes to 'Untitled-1' before quitting?
Save
Don't Save
Cancel
100%
169/5992 Col 31 34
Cell[StyleData["Input", "Condensed"],
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
edit Core.nb - Far
C:\...h\Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets\Core.nb 1251 Line 169/5992 Col 31 34
kernel. Be careful when modifying, renaming, or removing these styles, \
because the front end associates special meanings with these style names. \
Some attributes for these styles are actually set in FormatType Styles (in \
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AutoQuoteCharacters->{},
PasteAutoQuoteCharacters->{}
LanguageCategory->"Mathemati
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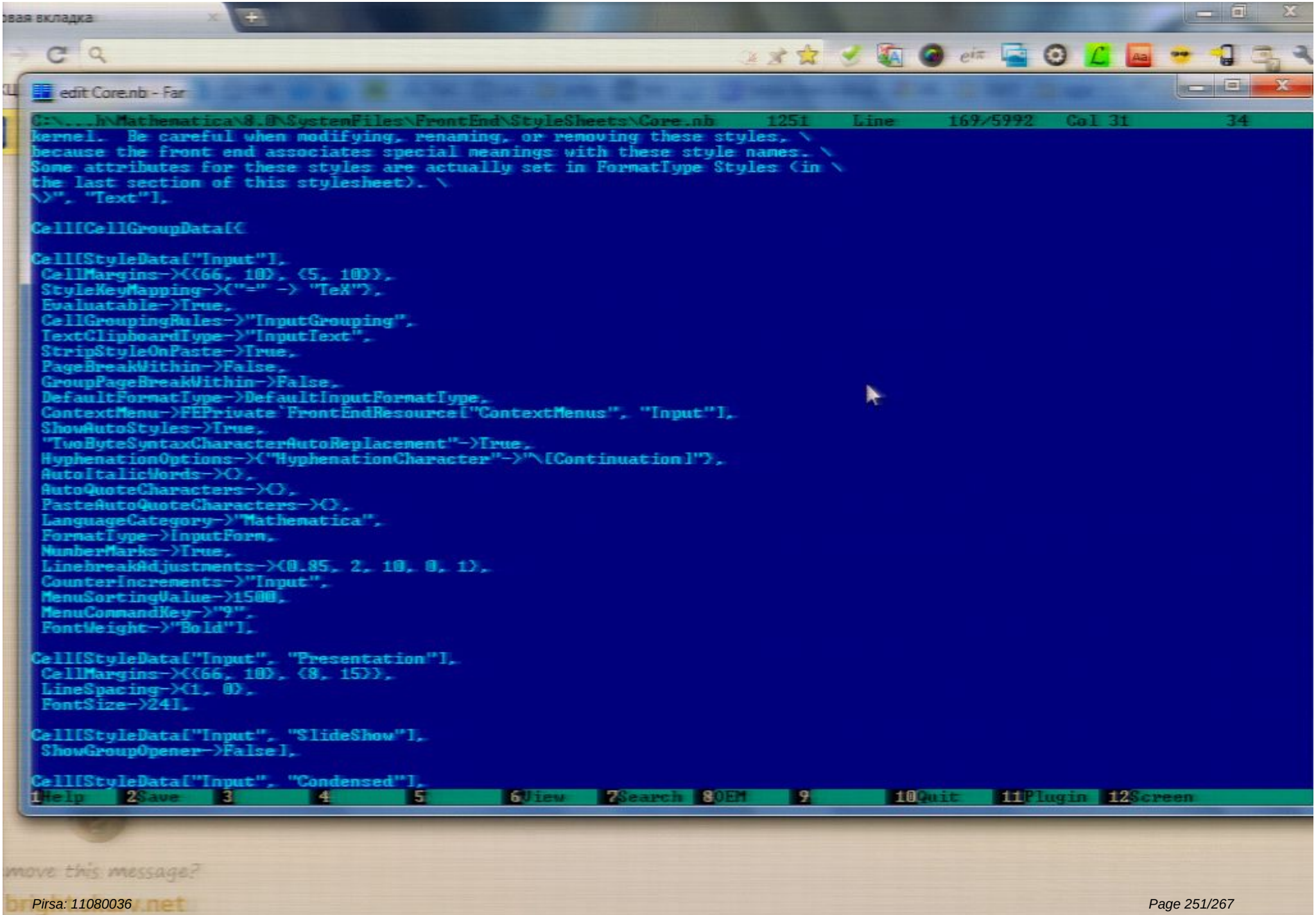
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen
Why the Beep?
There appears to be an error in the file named below. You should close it without saving, then check the "Parse and load entire notebook into memory upon opening" checkbox in the Notebook Options dialog. File name: C:\Program Files\Wolfram Research \Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets\Core.nb.
OK


edit Core.nb - Far
C:\...h\Mathematica\8.0\SystemFiles\FrontEnd\StyleSheets\Core.nb 1251 Line 169/5992 Col 31 34
kernel. Be careful when modifying, renaming, or removing these styles, \
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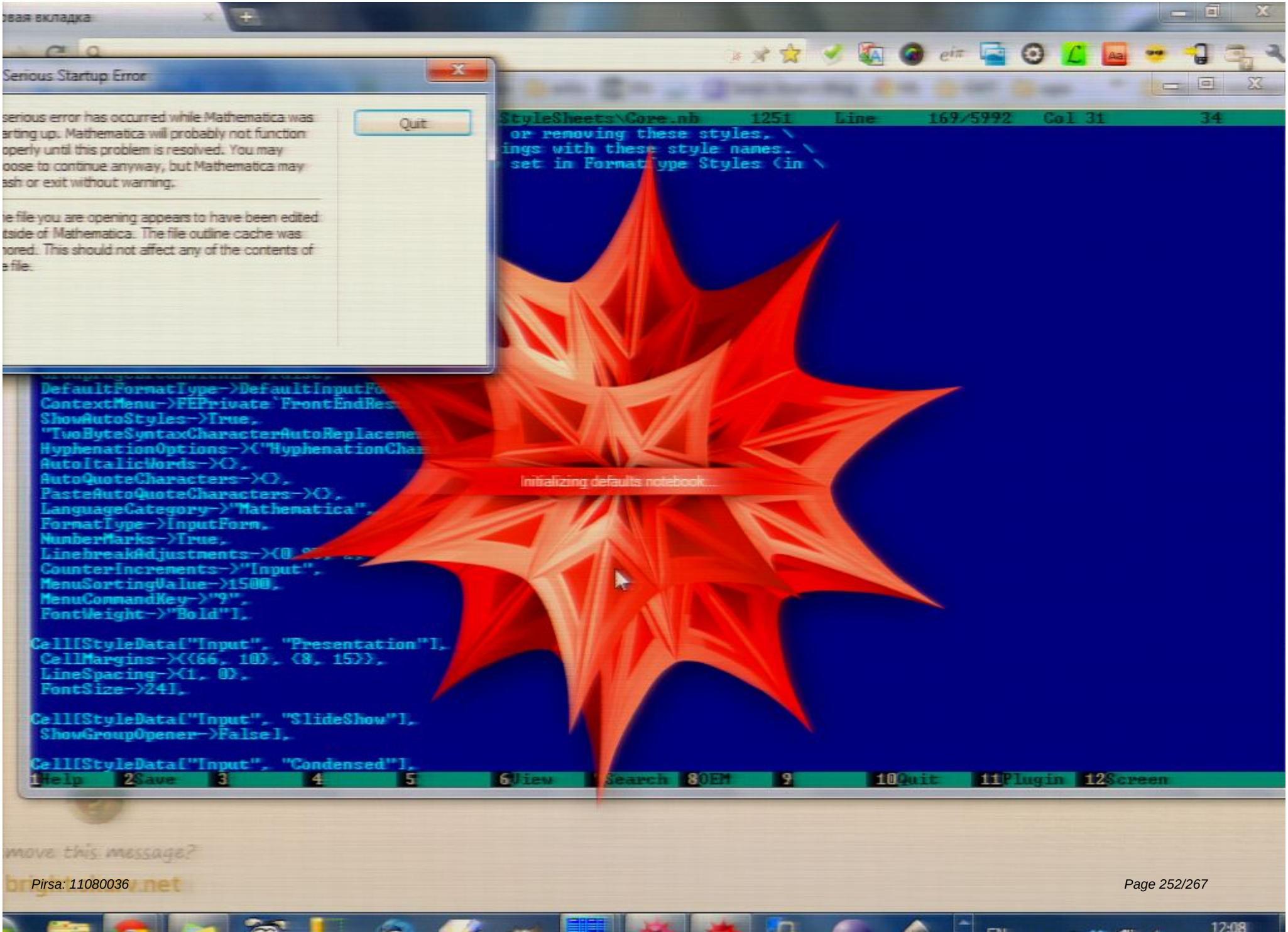
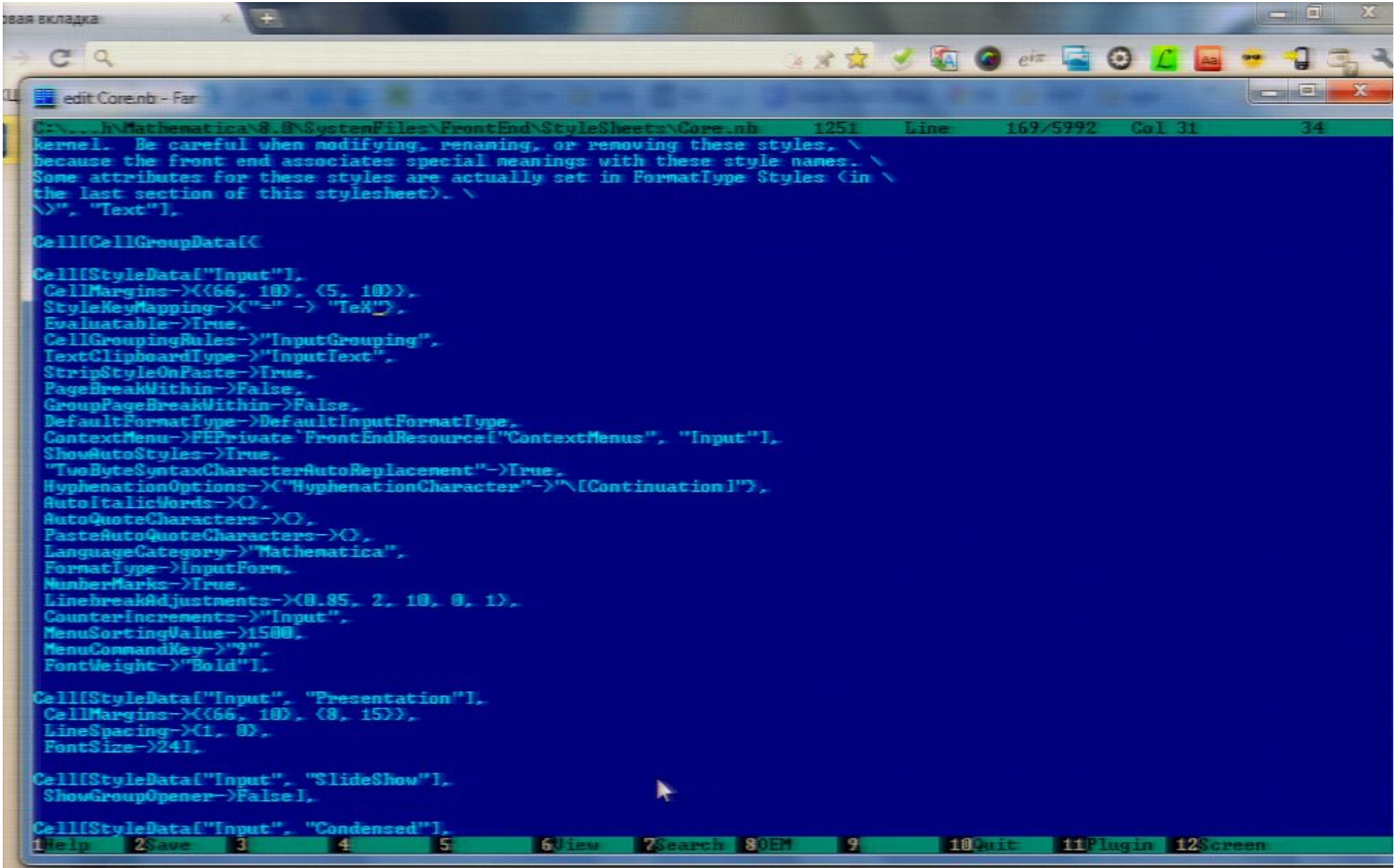

Serious Startup Error
Quit
StyleSheets\Core.nb 1251 Line 169/5992 Col 31 34
Initializing defaults notebook...
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


edit Core.nb - Far
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kernel. Be careful when modifying, renaming, or removing these styles, \
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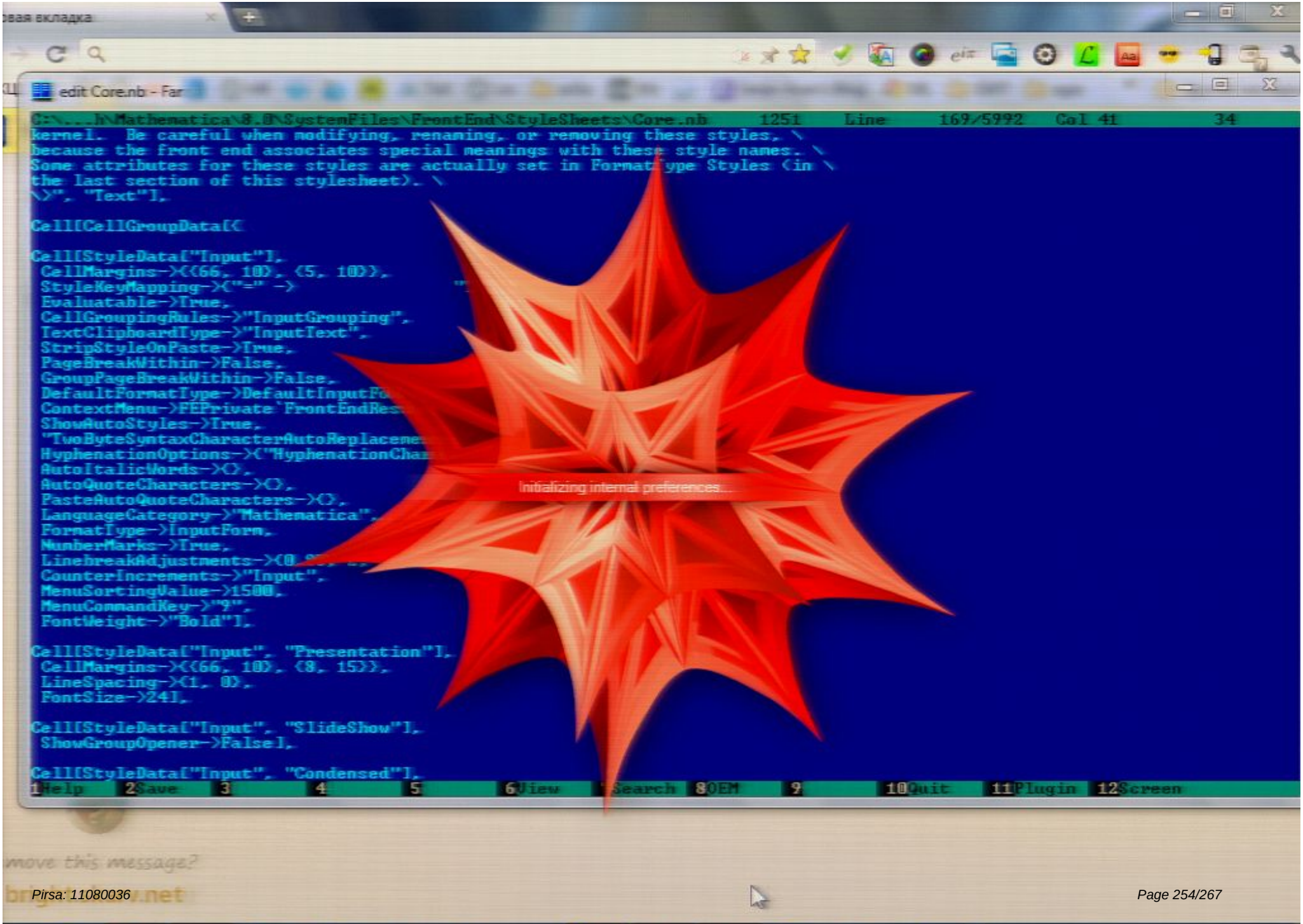
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kernel. Be careful when modifying, renaming, or removing these styles. \
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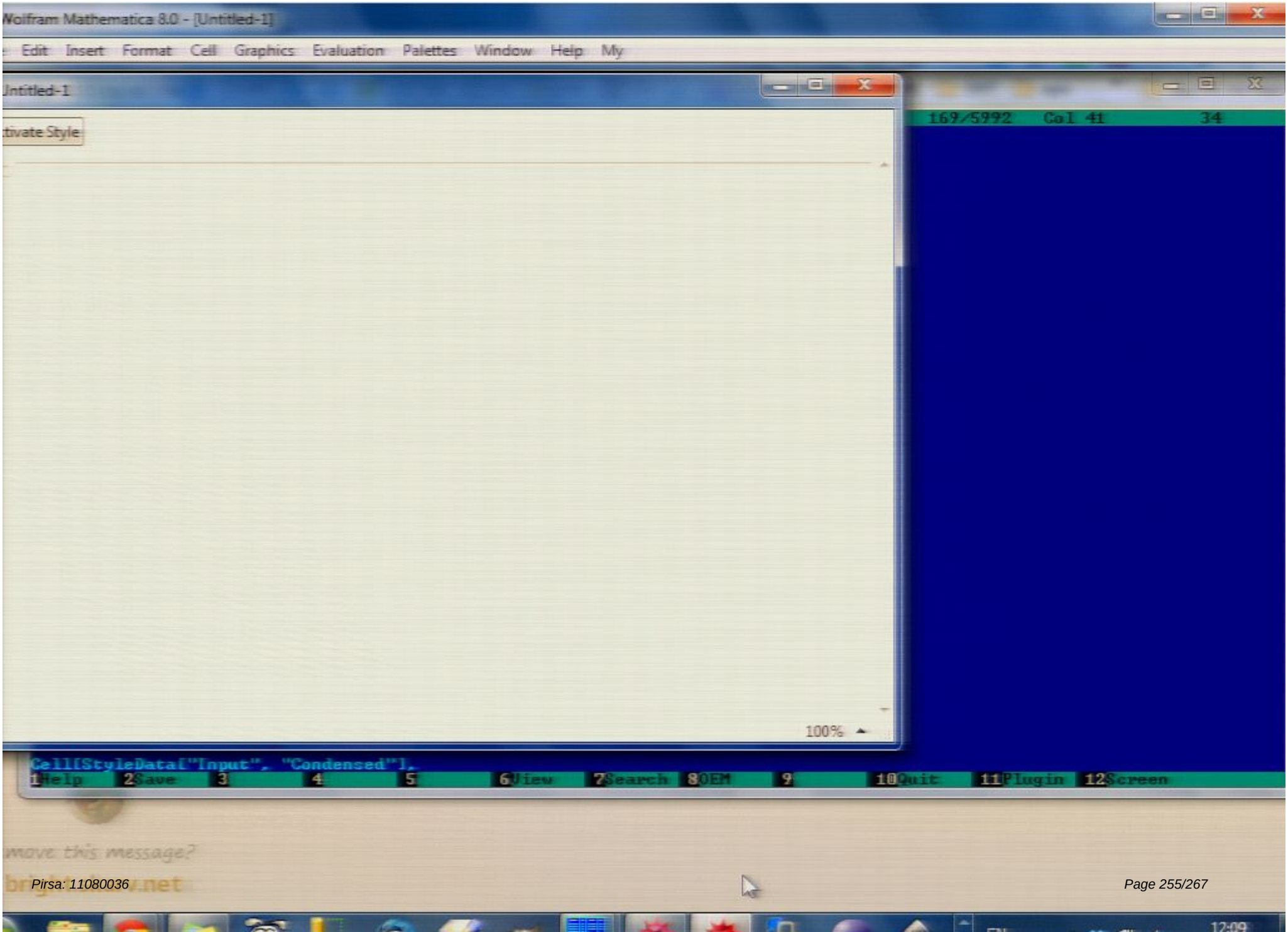
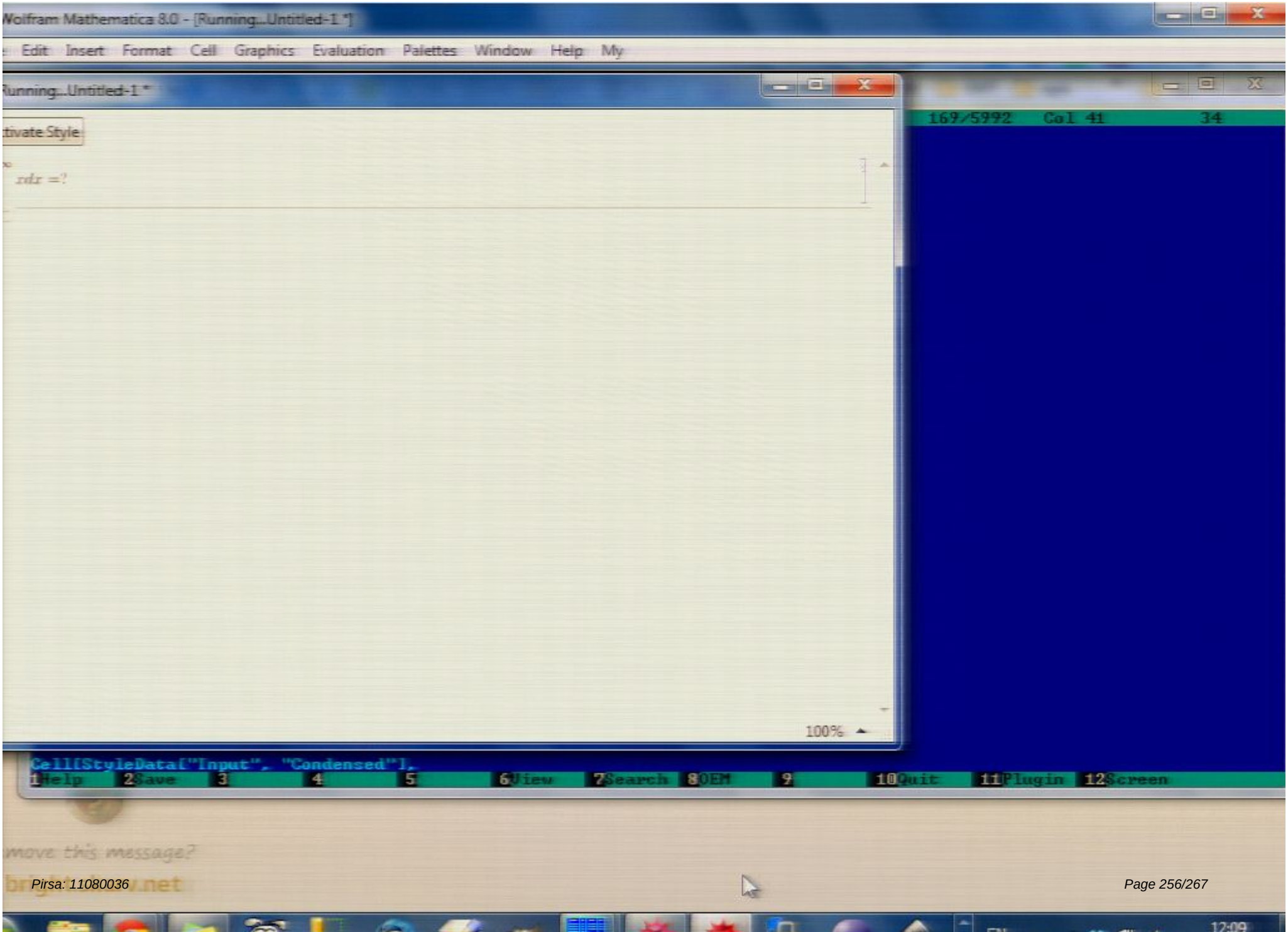

Wolfram Mathematica 8.0 - [Untitled-1]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1
tivate Style
169/5992 Col 41 34
100%
Cell[StyleData["Input", "Condensed"],
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen


Wolfram Mathematica 8.0 - [Running...Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Running...Untitled-1 *
tivate Style
rdr =?
100%
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Cell[StyleData["Input", "Condensed"],
1Help 2Save 3 4 5 6View 7Search 8OEM 9 10Quit 11Plugin 12Screen

Wolfram Mathematica 8.0 - [Untitled-1 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-1 *

Activate Style

$$\int_0^\infty x dx = ?$$

150%

Wolfram Mathematica 8.0 - [Untitled-1 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Untitled-1 *

Activate Style

$$\int_0^\infty x dx = ?$$

150%

Wolfram Mathematica 8.0 - [Running...Untitled-1 *]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Running...Untitled-1 *

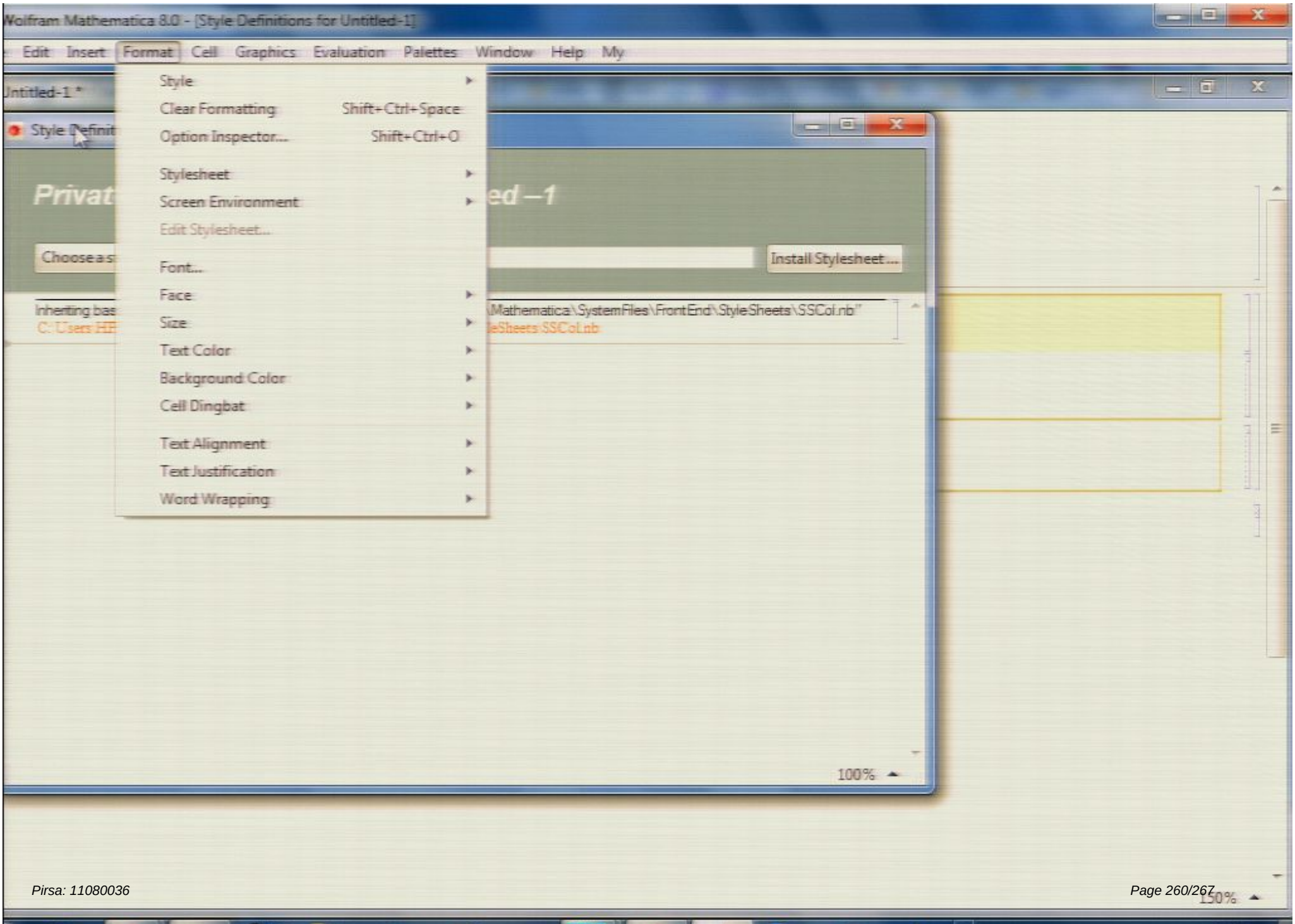
Activate Style

$$\int_0^\infty x dx = ?$$

sfssdf $\Delta = 4$

150%

12:10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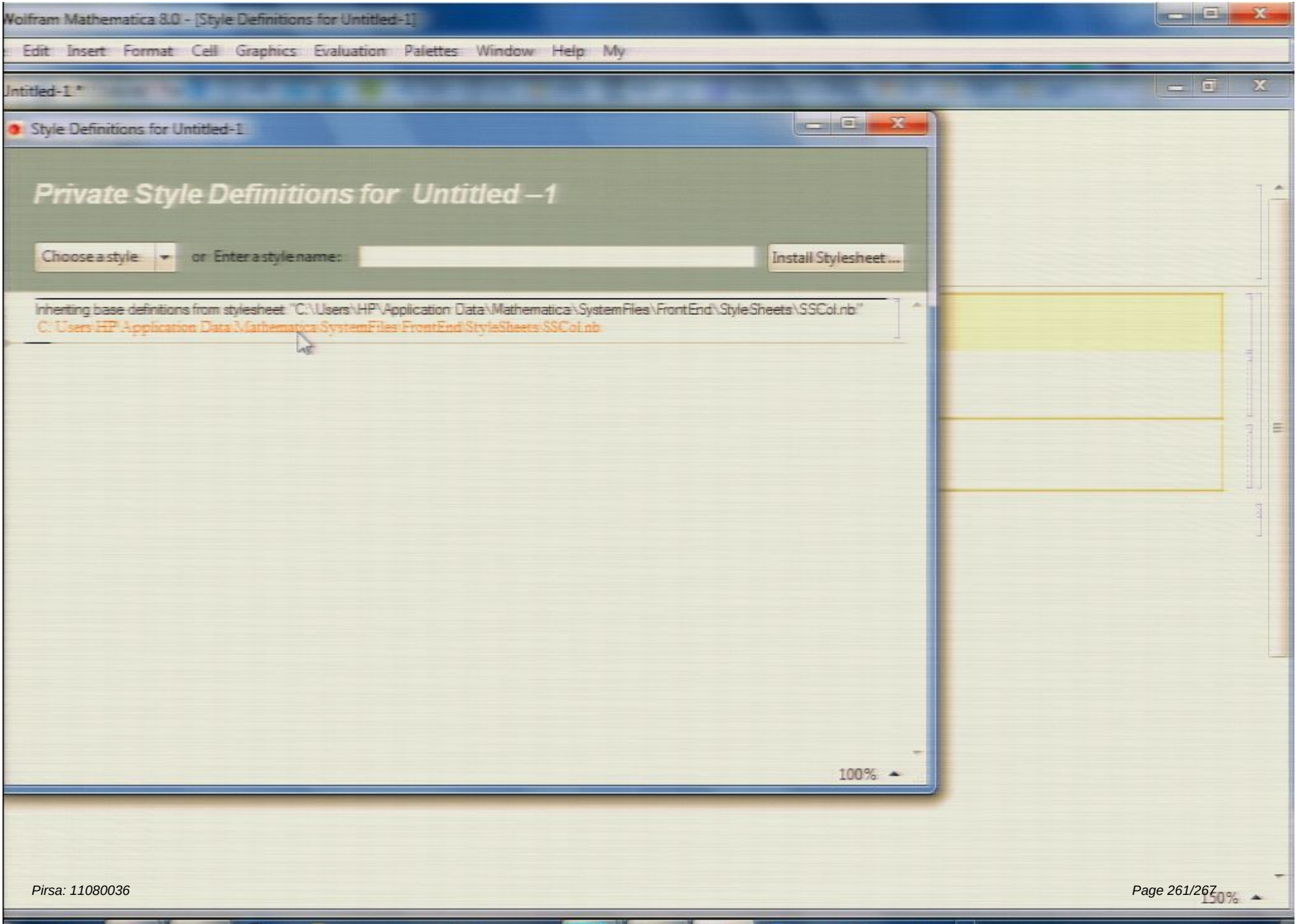
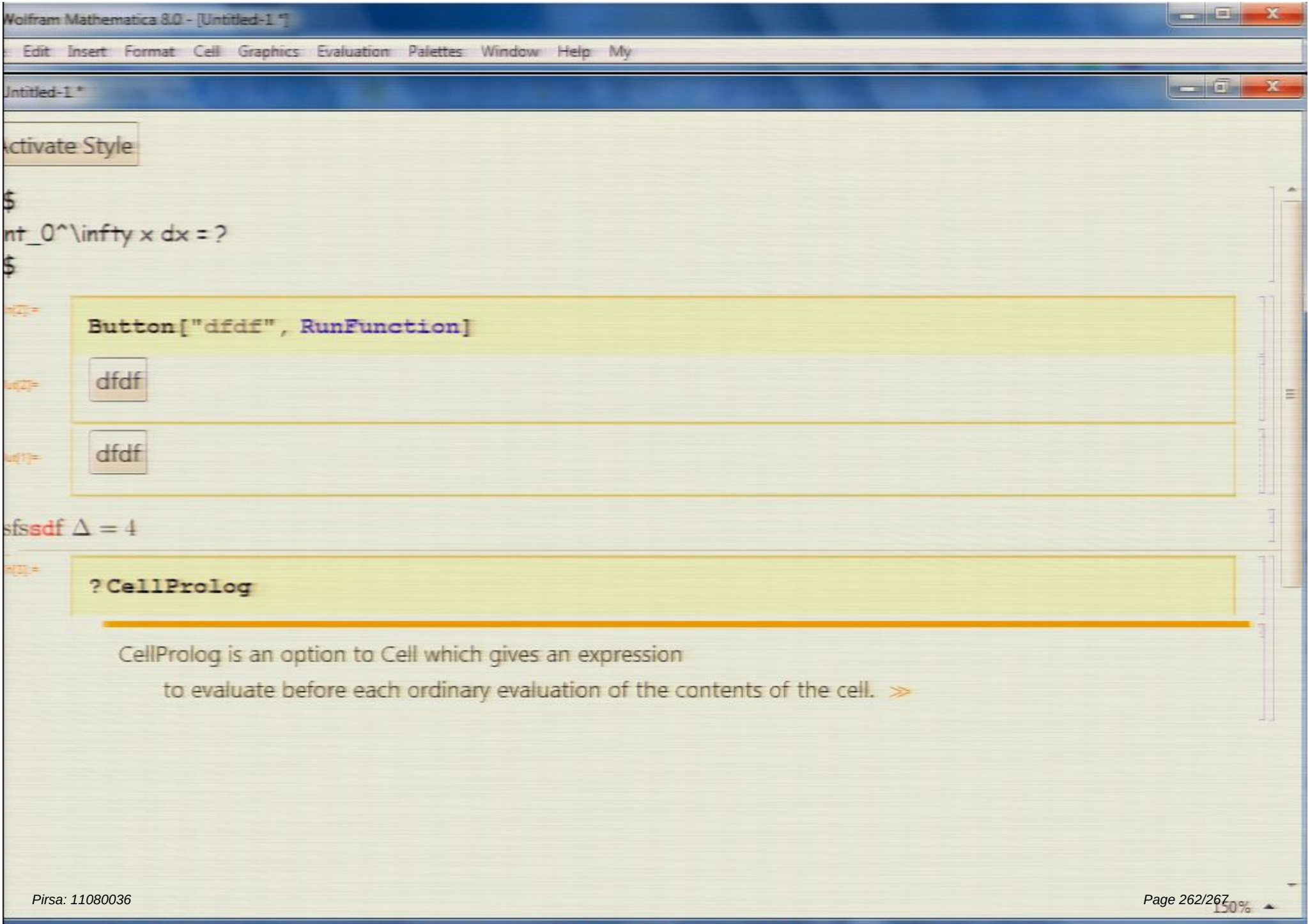
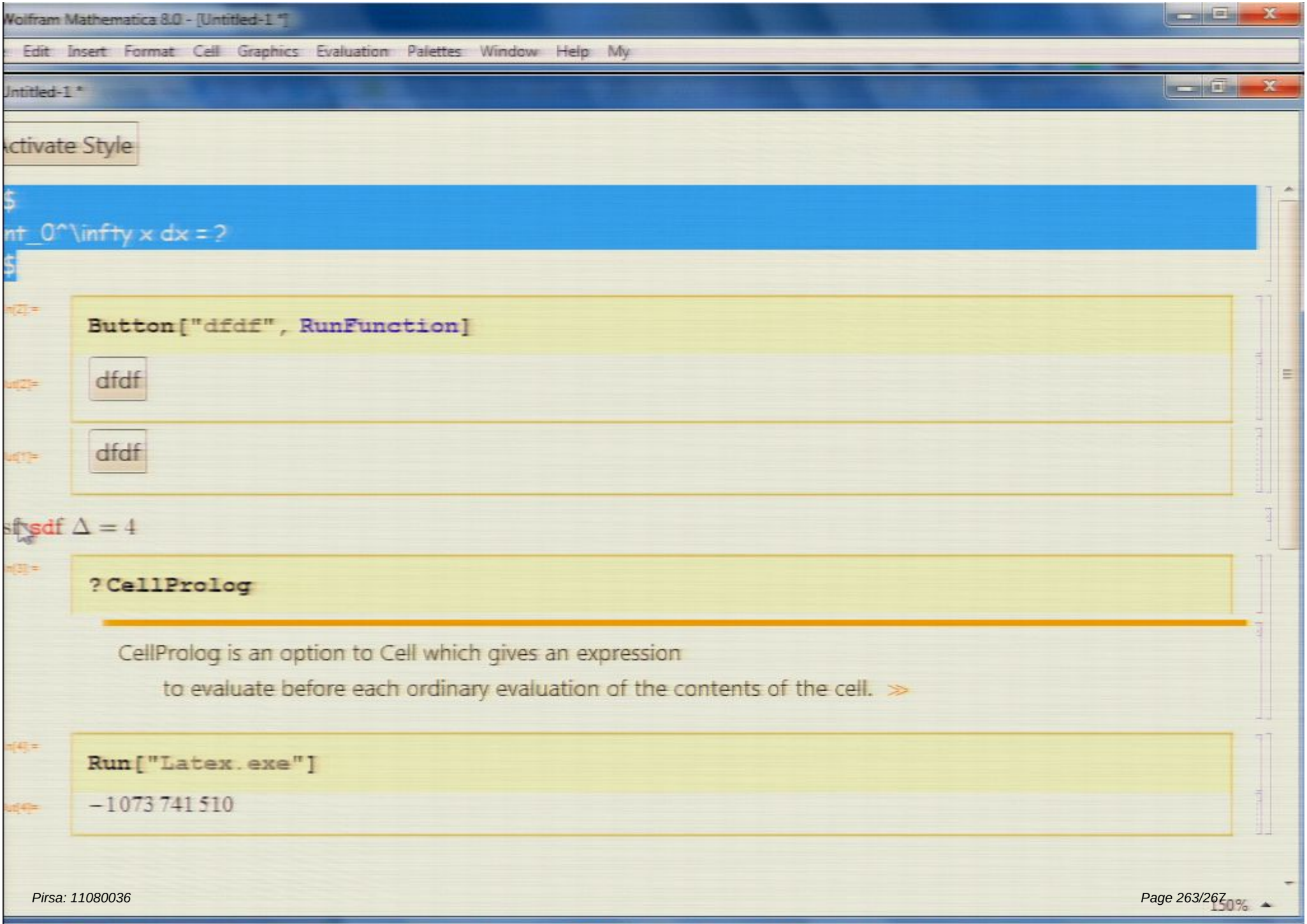
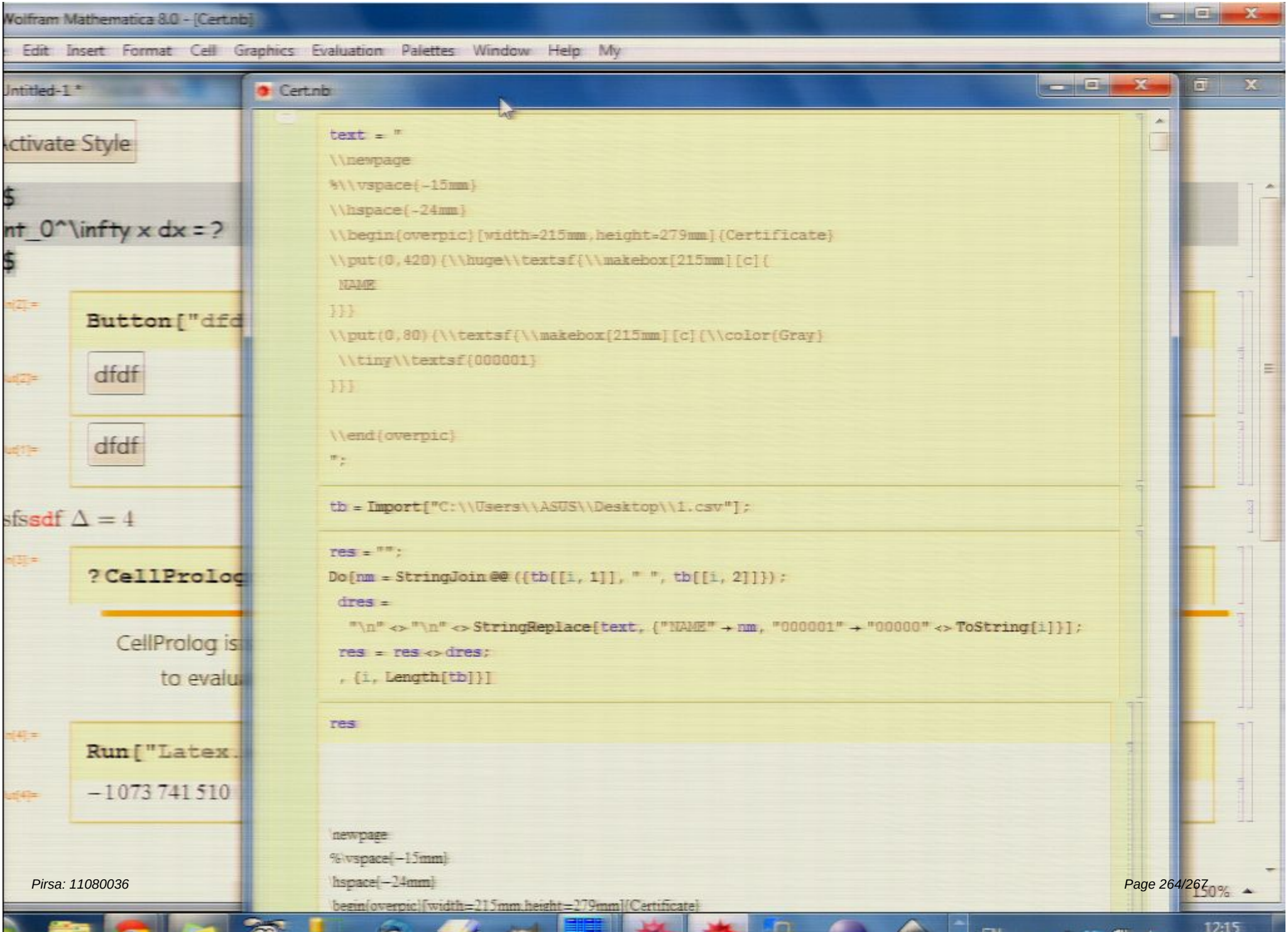
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1 *
Style:
Clear Formatting Shift+Ctrl+Space
Option Inspector... Shift+Ctrl+O
Stylesheet
Screen Environment
Edit Stylesheet...
Font...
Face
Size
Text Color
Background Color
Cell Dingbat
Text Alignment
Text Justification
Word Wrapping
Install Stylesheet...
100%
150%


Wolfram Mathematica 8.0 - [Style Definitions for Untitled-1]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1 *
Style Definitions for Untitled-1
Private Style Definitions for Untitled –1
Choose a style
or Enter a style name:
Install Stylesheet...
Inheriting base definitions from stylesheet "C:\Users\HP\Application Data\Mathematica\SystemFiles\FrontEnd\StyleSheets\SSCol.nb"
C:\Users\HP\Application Data\Mathematica\SystemFiles\FrontEnd\StyleSheets\SSCol.nb
100%
150%


Wolfram Mathematica 8.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1 *
ctivate Style
$
nt_0^\infty x dx = ?
$
Button["dfdf", RunFunction]
dfdf
dfdf
sfssdf Δ = 4
?CellProlog
CellProlog is an option to Cell which gives an expression
to evaluate before each ordinary evaluation of the contents of the cell. ≫


Wolfram Mathematica 8.0 - [Untitled-1 *]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1 *
ctivate Style
nt_0^\infty x dx = ?
Button["dfdf", RunFunction]
dfdf
dfdf
sdf Δ = 4
? CellProlog
CellProlog is an option to Cell which gives an expression
to evaluate before each ordinary evaluation of the contents of the cell. ≫
Run["Latex.exe"]
−1 073 741 510


Wolfram Mathematica 8.0 - [Cert.nb]
Edit Insert Format Cell Graphics Evaluation Palettes Window Help My
Untitled-1 *
Activate Style
$
nt_0^\infty x dx = ?
$
Button["dfd
dfdf
dfdf
sfssdf Δ = 4
? CellProlog
CellProlog is
to evalu
Run["Latex
−1 073 741 510
Cert.nb
text = "
\\newpage
%\\vspace{-15mm}
\\hspace{-24mm}
\\begin{overpic}[width=215mm,height=279mm]{Certificate}
\\put(0,420){\\huge\\textsf{\\makebox[215mm][c]{
NAME
}}}
\\put(0,80){\\textsf{\\makebox[215mm][c]{\\color{Gray}
\\tiny\\textsf{000001}
}}}
\\end{overpic}
";
tb = Import["C:\\Users\\ASUS\\Desktop\\1.csv"];
res = "";
Do[nm = StringJoin @@ ({tb[[i, 1]], " ", tb[[i, 2]]});
dres =
"\n" <> "\n" <> StringReplace[text, {"NAME" → nm, "000001" → "00000" <> ToString[i]}];
res = res <> dres;
, {i, Length[tb]}]
res
\newpage
%\vspace{-15mm}
\hspace{-24mm}
\begin{overpic}[width=215mm,height=279mm]{Certificate}
150%

Wolfram Mathematica 8.0 - [Cert.nb]

Edit Insert Format Cell Graphics Evaluation Palettes Window Help My

Cert.nb

```
text = "
\\newpage
%\\vspace{-15mm}
\\hspace{-24mm}
\\begin{overpic}[width=215mm,height=279mm]{Certificate}
\\put(0,420){\\huge\\textsf{\\makebox[215mm][c]{
 NAME
}}}
\\put(0,80){\\textsf{\\makebox[215mm][c]{\\color{Gray}
 \\tiny\\textsf{000001}
}}}

\\end{overpic}
";
```

```
tb = Import["C:\\Users\\ASUS\\Desktop\\1.csv"];
```

```
res = "";
Do[nm = StringJoin @@ ({tb[[i, 1]], " ", tb[[i, 2]]});
 dres = "\n" <> "\n" <> StringReplace[text, {"NAME" → nm, "000001" → "00000" <> ToString[i]}];
 res = res <> dres;
 , {i, Length[tb]}]
```

```
res
```

```
newpage
%\vspace{-15mm}
\hspace{-24mm}
```


100%

Mathematica Summer School in Theoretical Physics

Certificate

This is to certify that

Marco Stefano Bianchi

completed a course

at

Mathematica Summer School in Theoretical Physics

"Scattering Amplitudes and AdS/CFT"

Cert.pdf - Adobe Reader

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7 / 83 101% Comment Share

held at Perimeter Institute in Waterloo, Canada

July 31st to August 6th 2011