

Title: PSI 17/18 Front End - Introduction to Mathematical Computing (Schnetter)

Date: Aug 22, 2017 10:30 AM

URL: <http://pirsa.org/17080063>

Abstract:

Introduction to Mathematica

PSI Course 2017

Erik Schnetter

Basic Operations

`2 + 3`

`Sqrt[4]`

`Sqrt[2]`

`N[Sqrt[2]]`

`Pi`

`N[Pi]`

`N[Pi, 1000]`

`10 ^ 100 + 10 ^ 101`

`x + 1`

200%

Out[3]= $\sqrt{2}$

In[4]:= `N[Sqrt[2]]`

Out[4]= 1.41421

In[5]:= `Pi`

Out[5]= π

`N[Pi]` I

`N[Pi, 1000]`

`10^100 + 10^101`

`x + 1`

`x = 5`

`x + 1`

`x = .`

`x`

`Prime[1000 000]`

`Solve[x^2 + 1 == 0, x]`

`Limit[1/n, n -> Infinity]`

`Sum[1/2^n, {n, 0, Infinity}]`

200%