

Title: Special Relativity 8 - Applications of Minkowskian Geometry

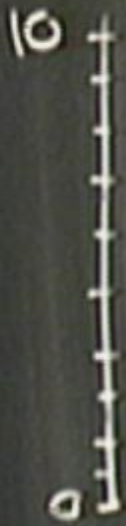
Date: Aug 12, 2008 09:00 AM

URL: <http://pirsa.org/08080067>

Abstract: Learning to use Minkowskian geometry to understand, very simply, a variety of aspects of Einstein's spacetime. <br> Learning Outcomes: <br> • How a straight line is the longest path between two points in spacetime. <br> • How a light particle experiences space and time: its journey from one location in the universe to another involves zero spacetime distance, and is thus instantaneous! <br> • How Einstein's special relativity has no difficulty handling accelerated observers.

Straight lines are longest paths in Minkowski.

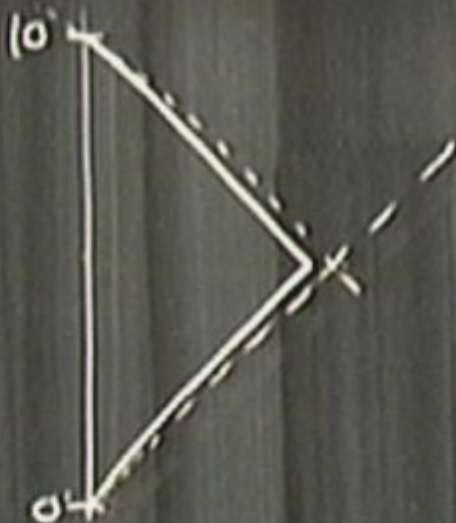
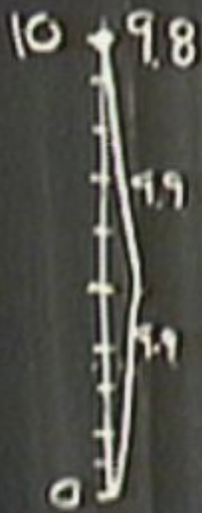
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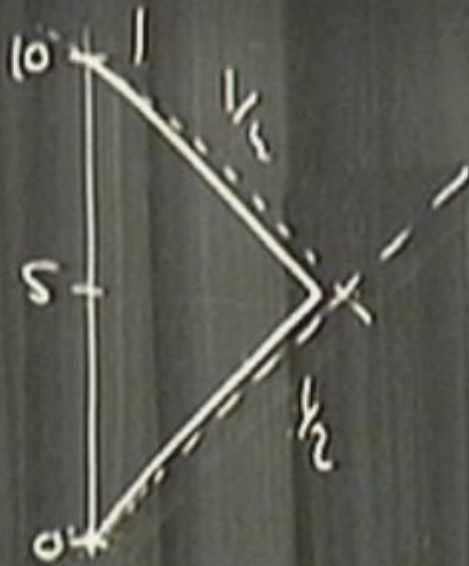
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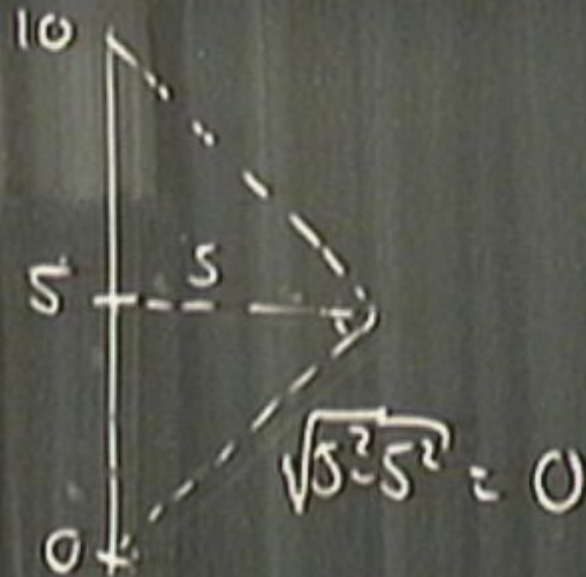
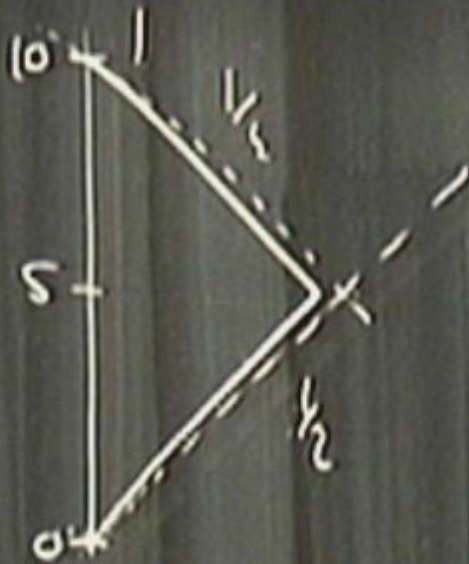
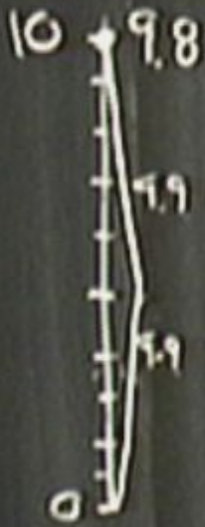
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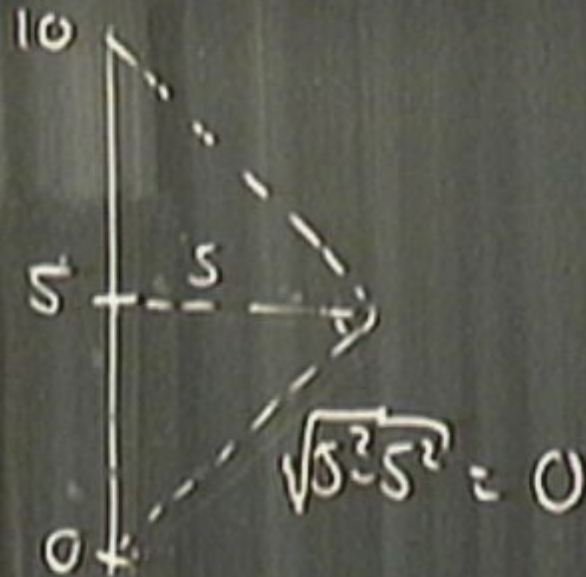
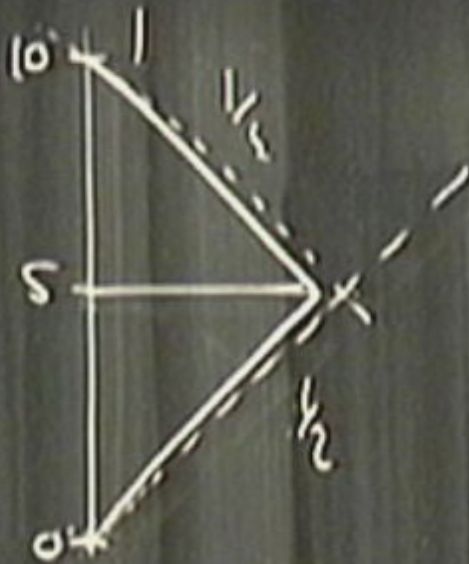
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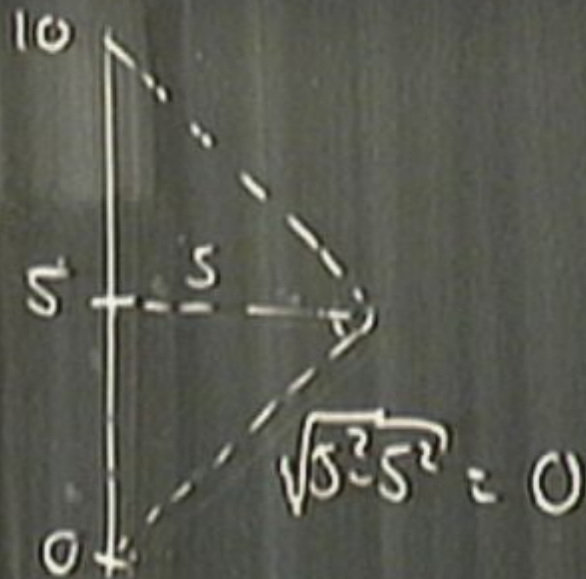
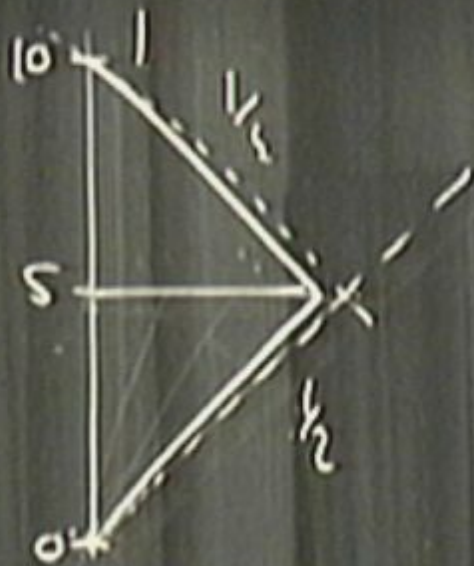
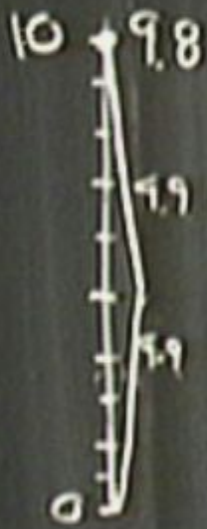


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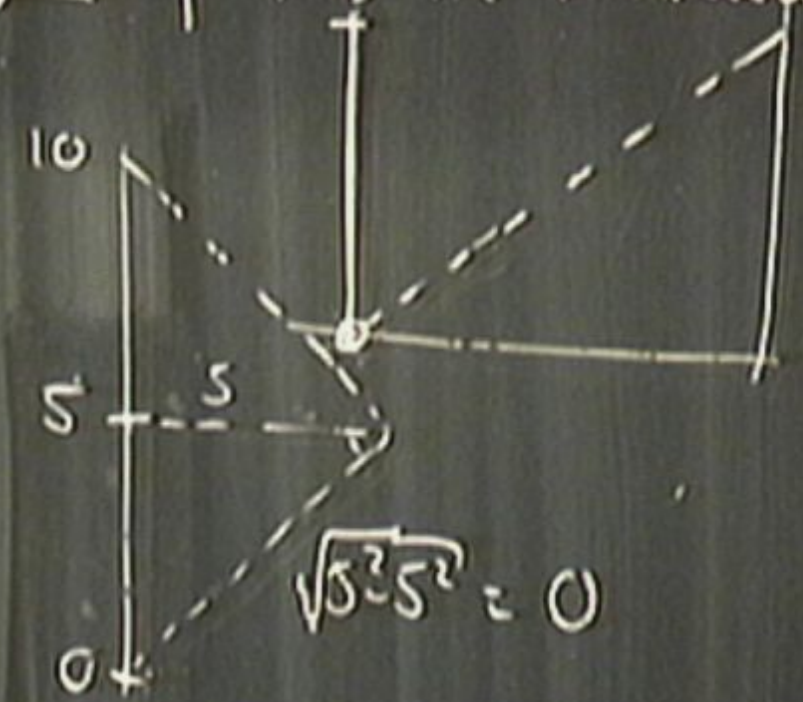
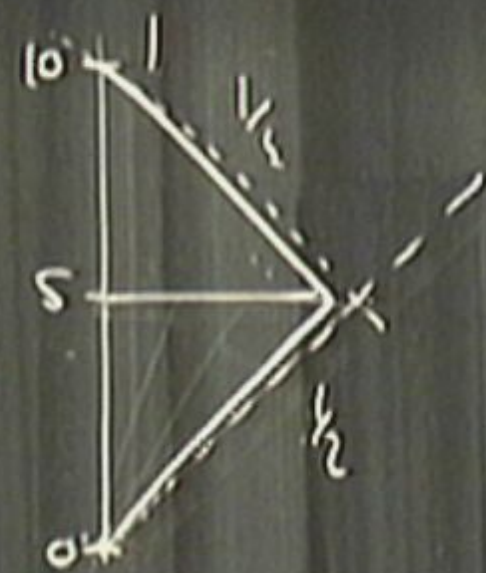
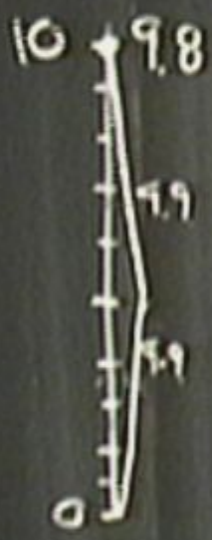




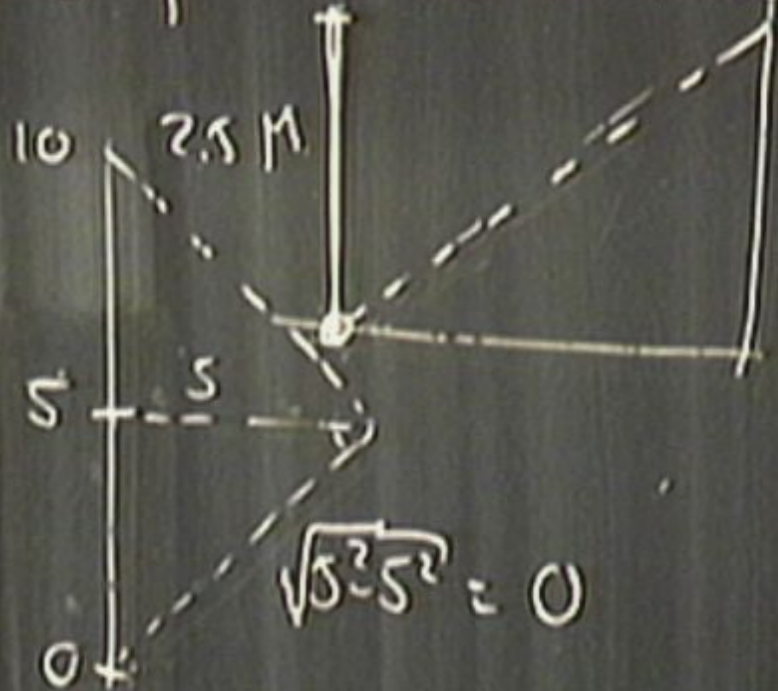
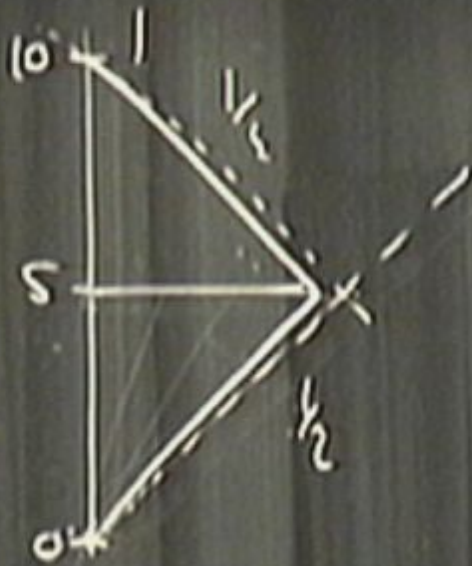
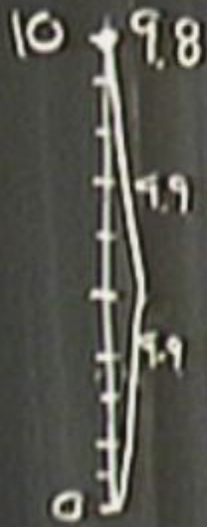
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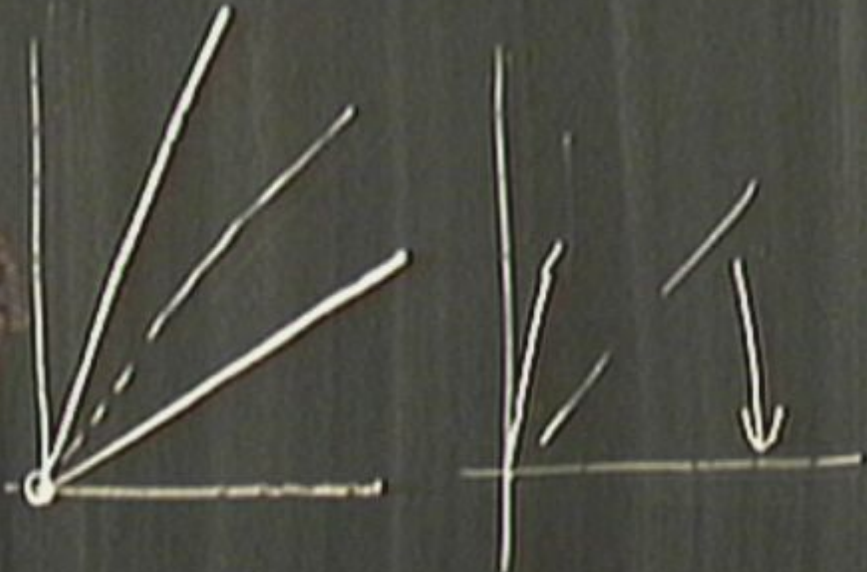
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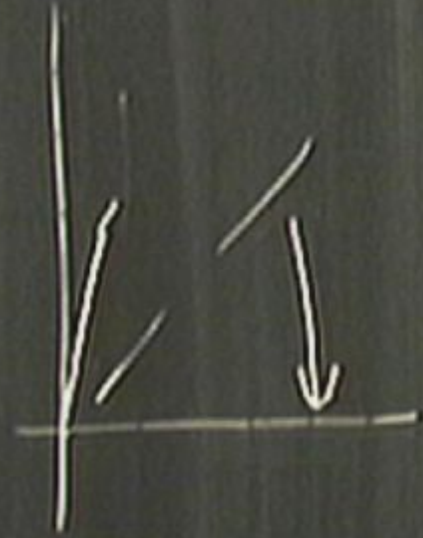


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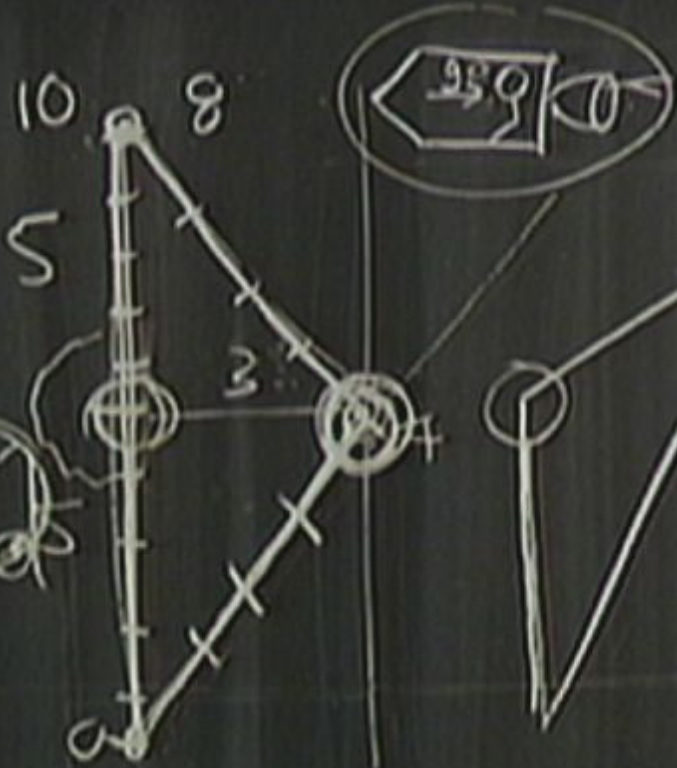








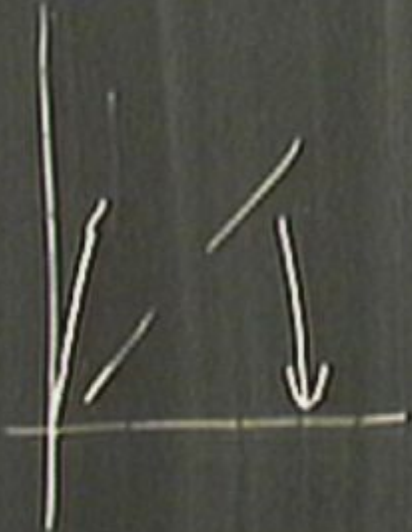
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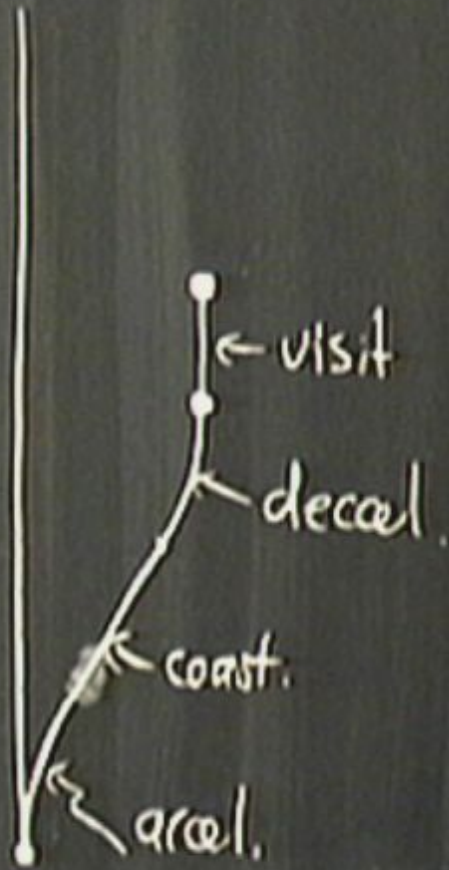
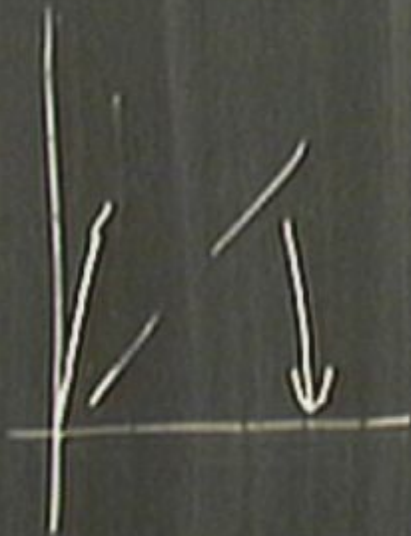
physical → cancel

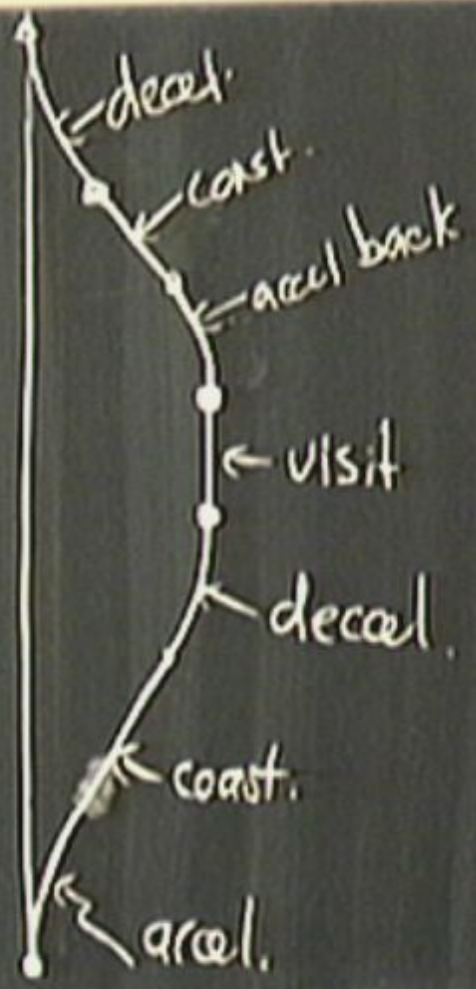
geometrical →

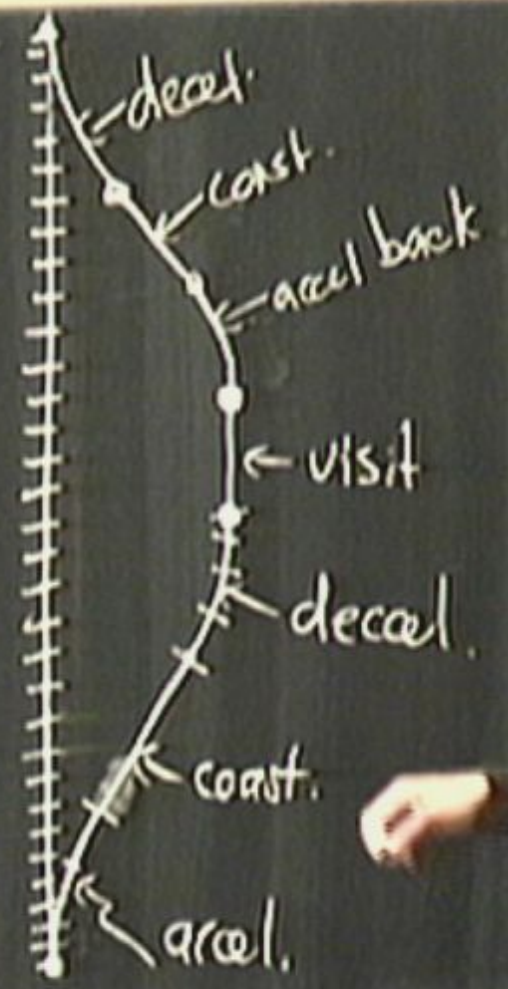
bend lines

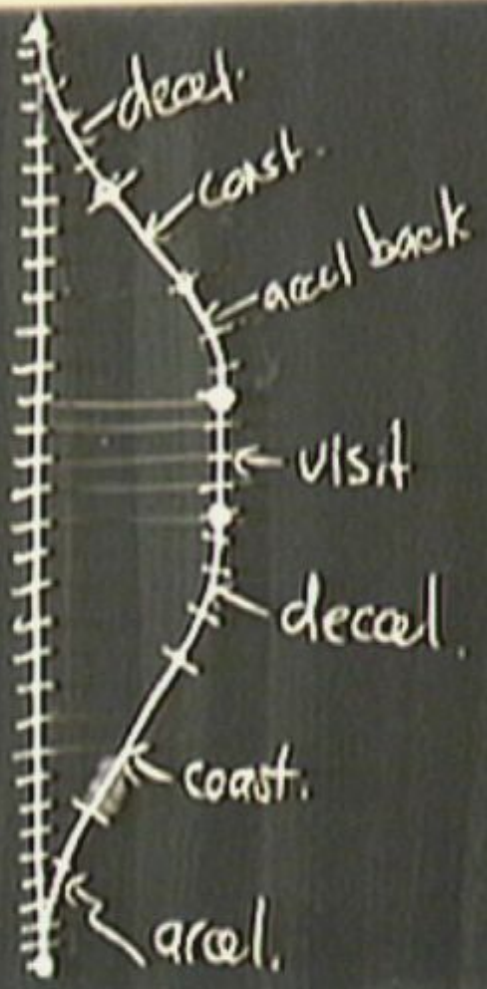
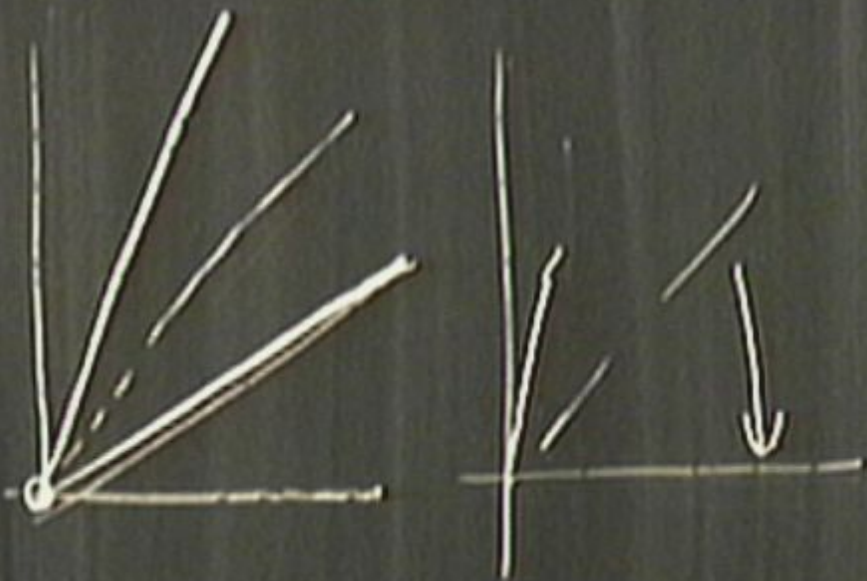


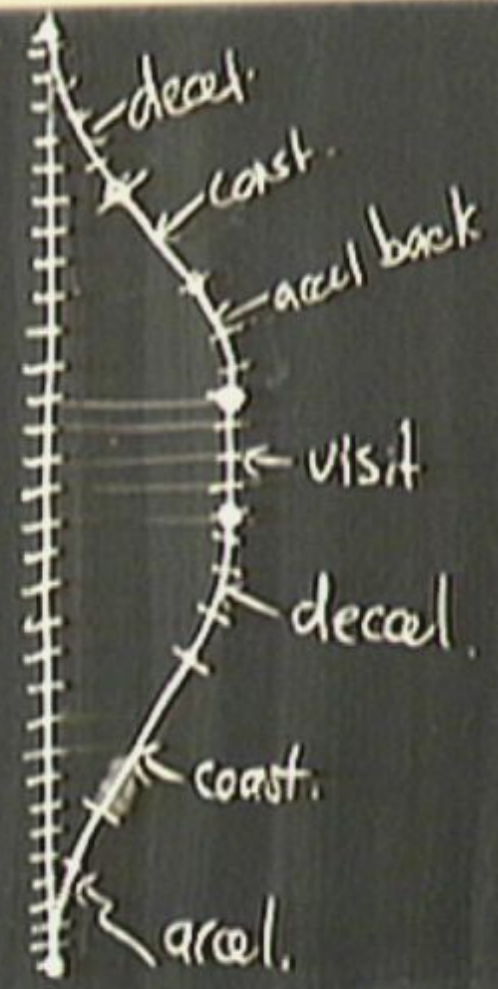


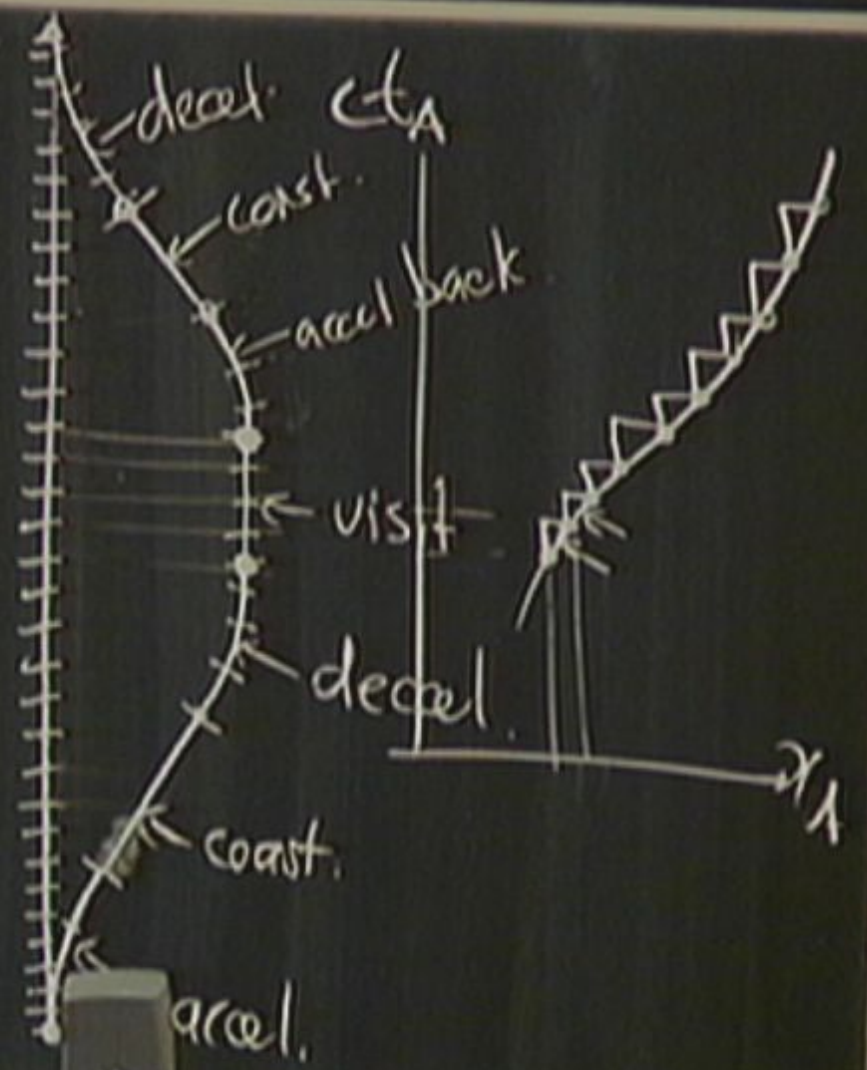


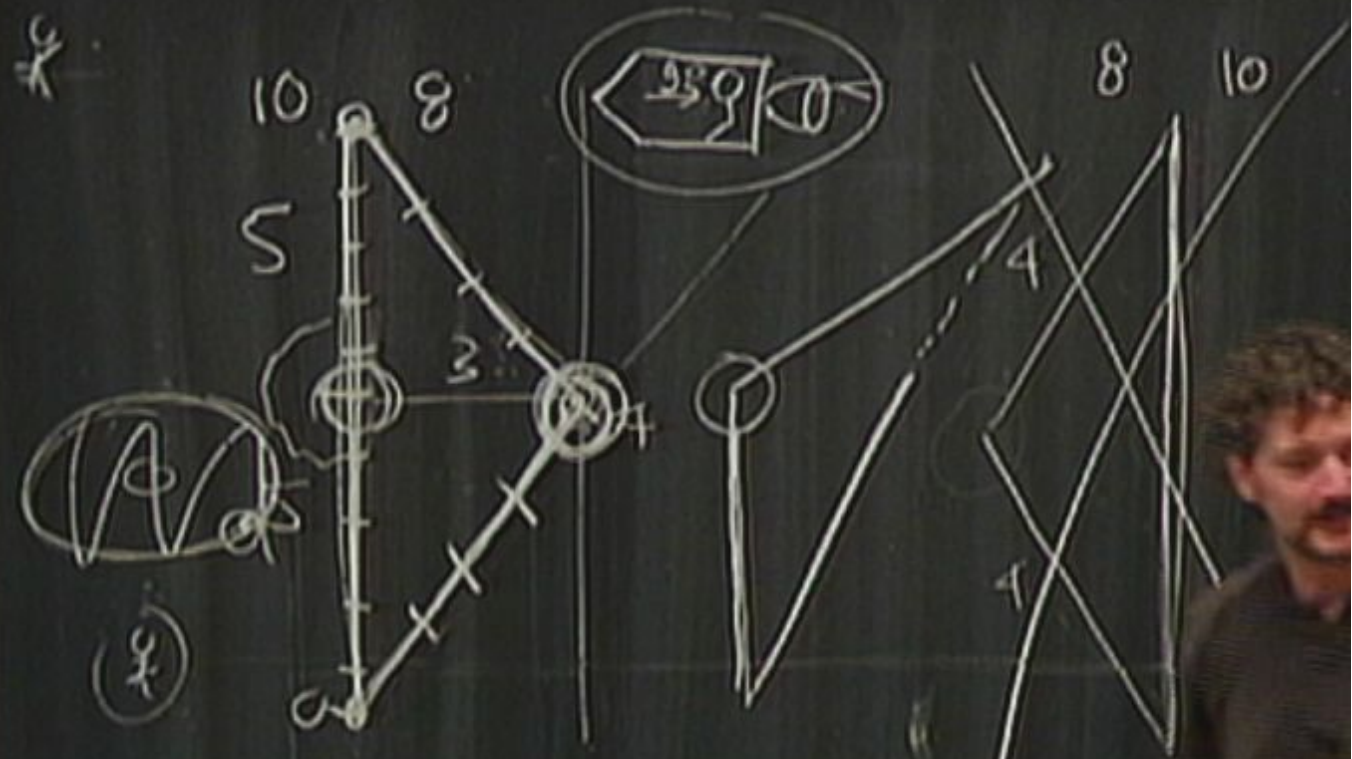
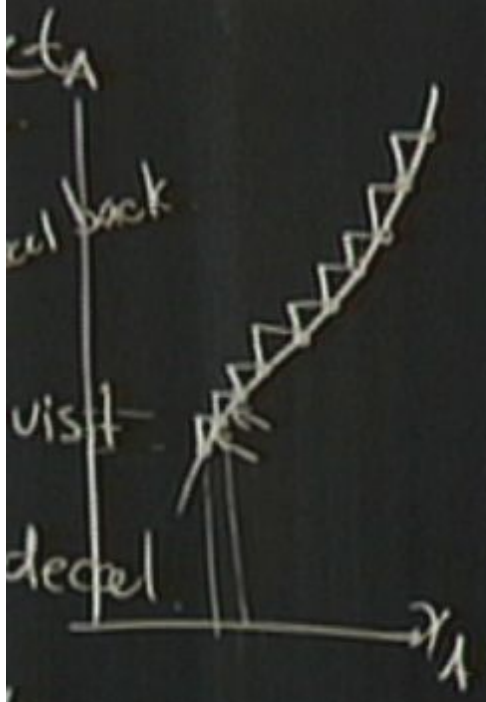




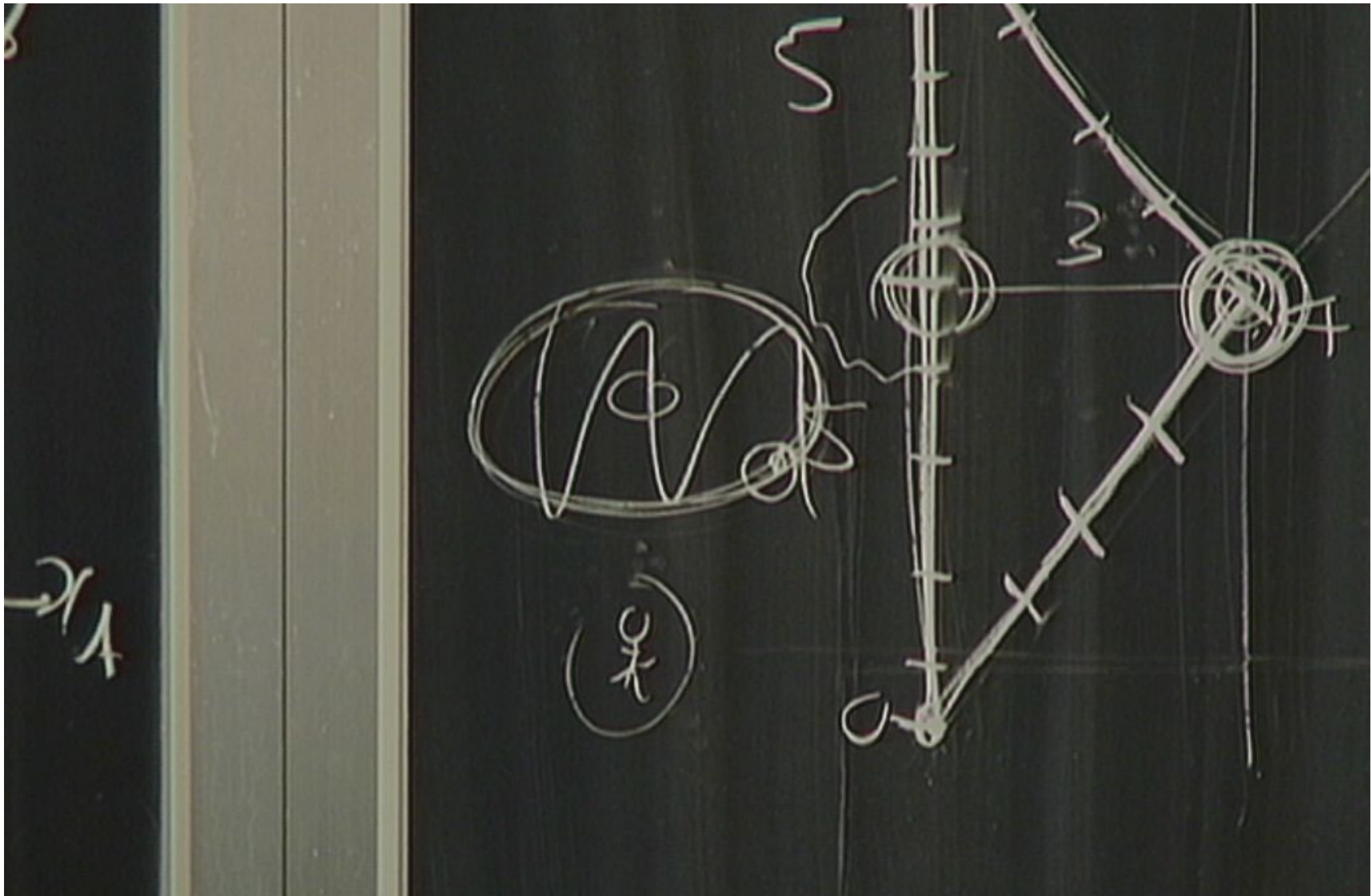








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