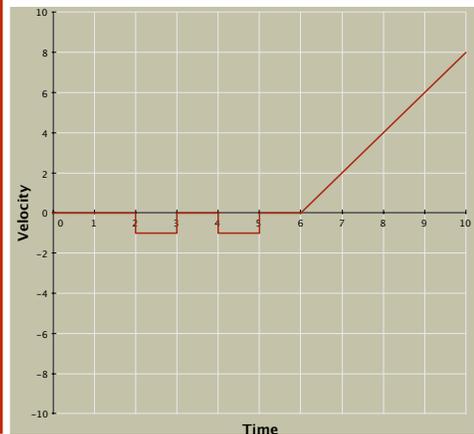
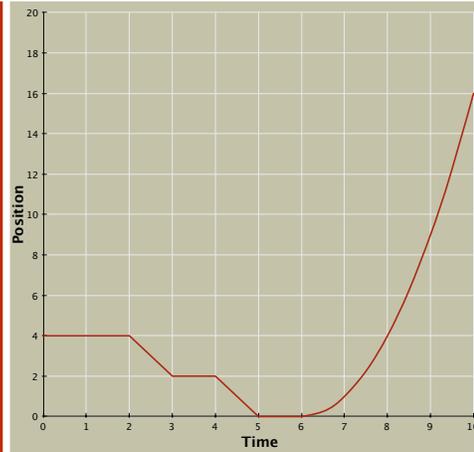


# Motion Graphs

Kinematics Unit



## Worksheets for Kinematics

By Robert Prior

Using motion graphs is an important skill. These worksheets provide students with practice interpreting and drawing motion graphs.

Expectations	
A1.12	use appropriate graphic modes of representation for qualitative and quantitative data
B2.2	analyse and interpret position-time, velocity-time, and acceleration-time graphs of motion in one dimension

### Inside

#### Simple Motion, Multiple Choice 2

Position-time and velocity-time graphs of either constant velocity or constant acceleration. Students choose the best description from a list.

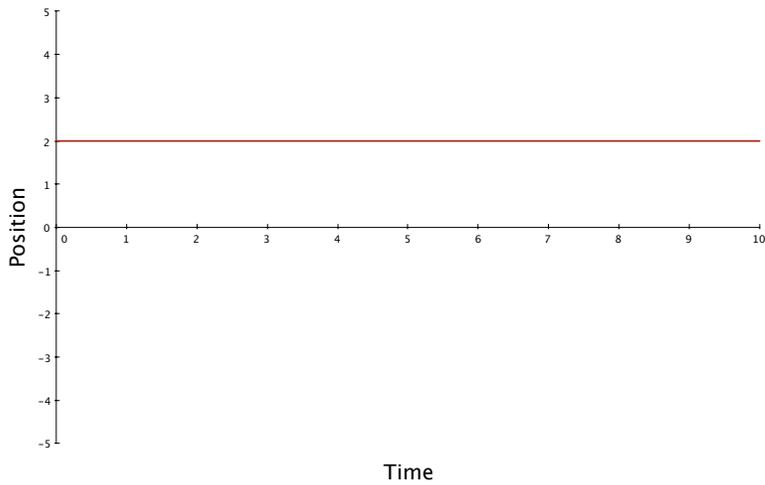
#### Describing Motion 6

Position-time and velocity-time graphs for simple and slightly-less-simple motion. Students write a short description using proper vocabulary.

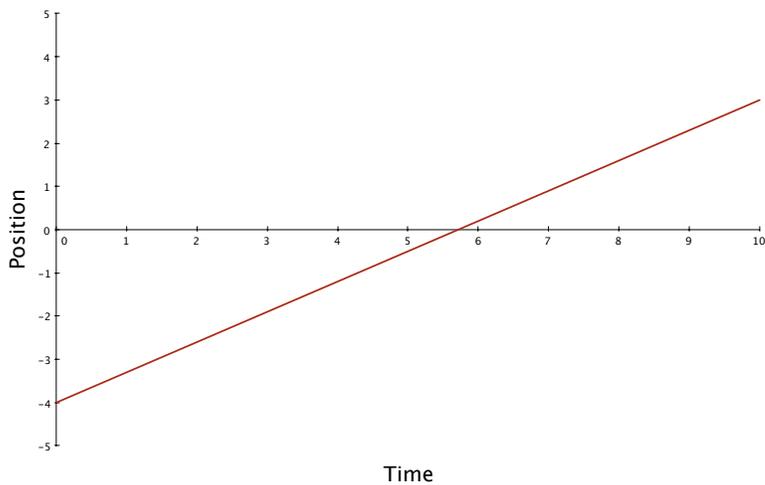
#### Sketching Motion Graphs 10

Students are given a position-time, velocity-time, or acceleration-time graph for simple or complex motion. They must sketch the missing graphs.

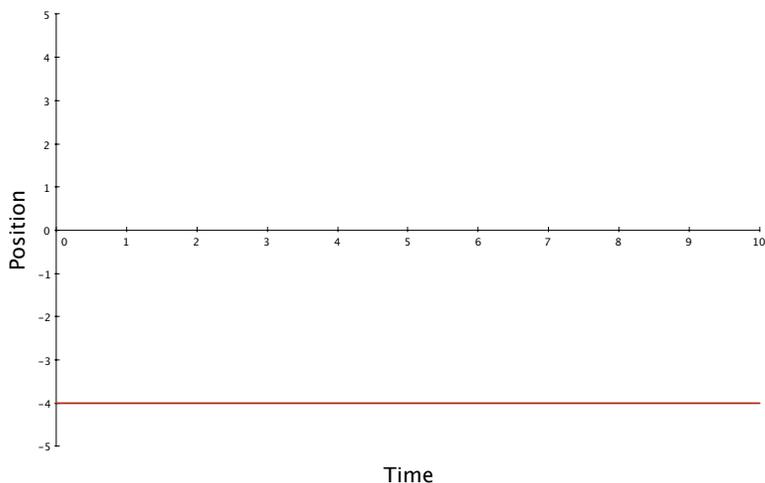
Determine the motion shown by the following graphs. Select the best term from the list.



- at rest
- constant positive velocity
- constant negative velocity
- constant positive acceleration
- constant negative acceleration

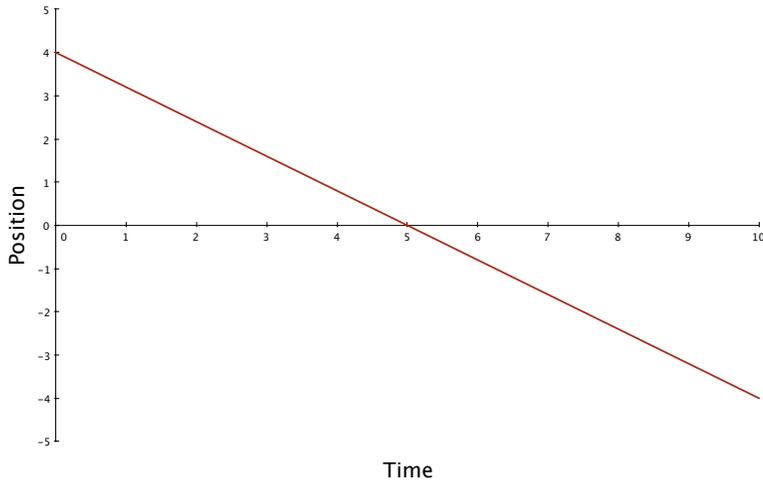


- at rest
- constant positive velocity
- constant negative velocity
- constant positive acceleration
- constant negative acceleration

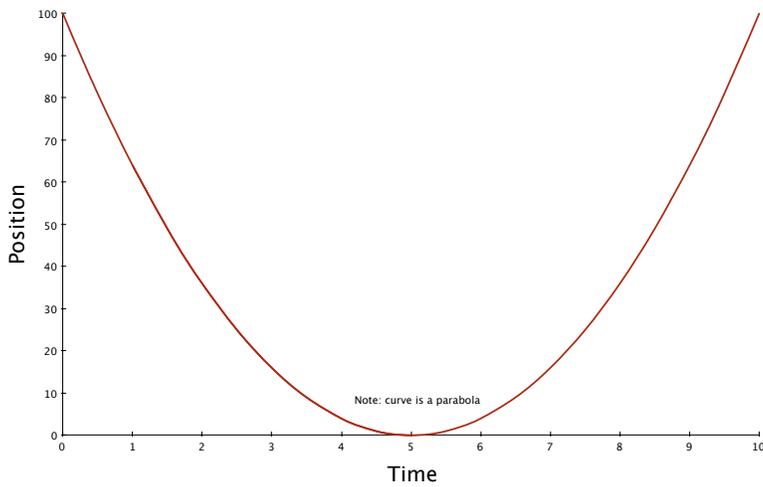


- at rest
- constant positive velocity
- constant negative velocity
- constant positive acceleration
- constant negative acceleration

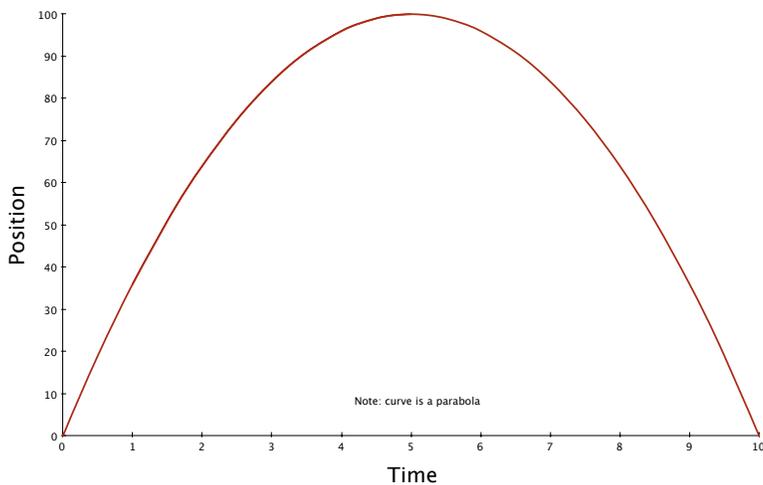
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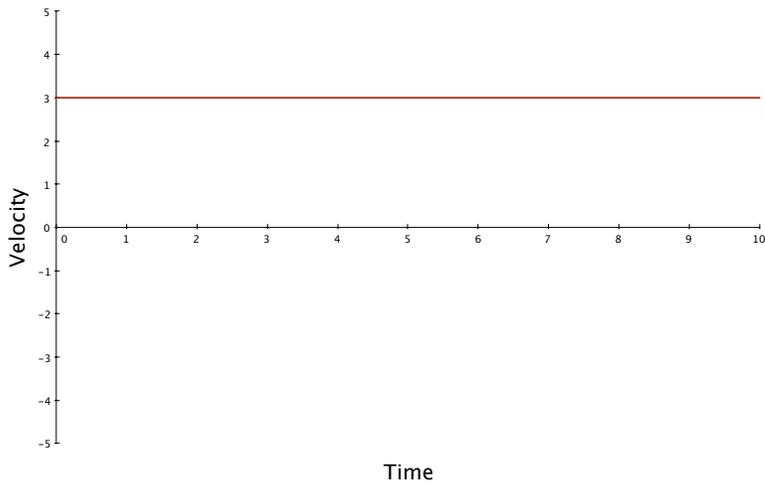


- at rest
- constant positive velocity
- constant negative velocity
- constant positive acceleration
- constant negative acceleration

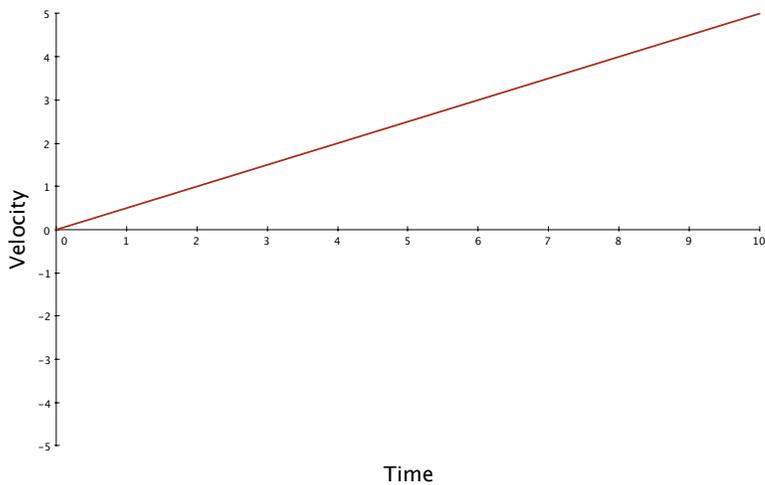


- at rest
- constant positive velocity
- constant negative velocity
- constant positive acceleration
- constant negative acceleration

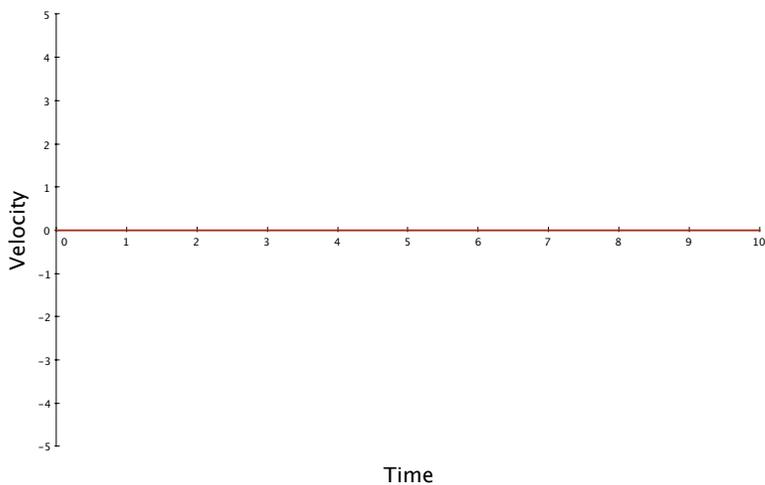
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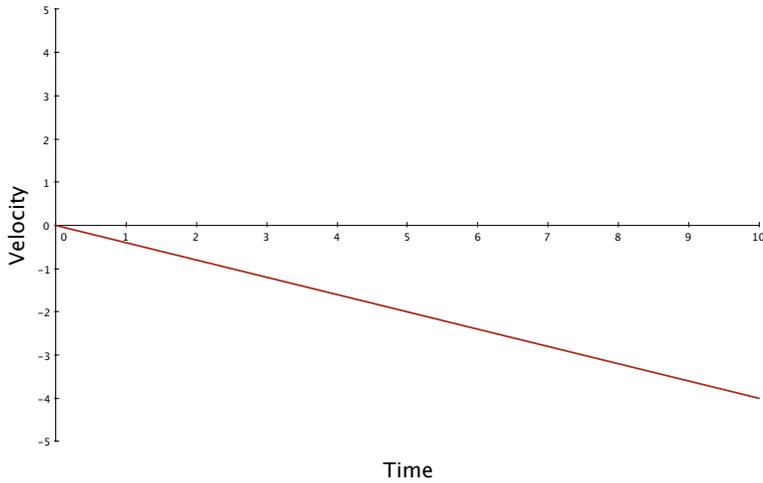


- at rest
- constant positive velocity
- constant negative velocity
- constant positive acceleration
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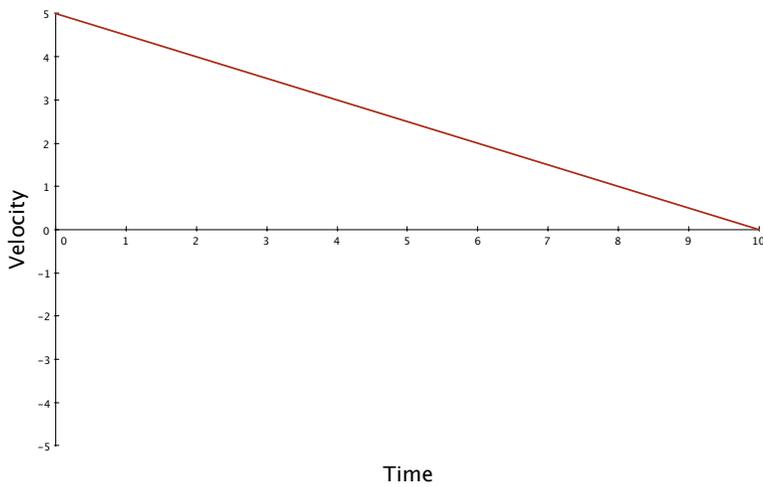


- at rest
- constant positive velocity
- constant negative velocity
- constant positive acceleration
- constant negative acceleration

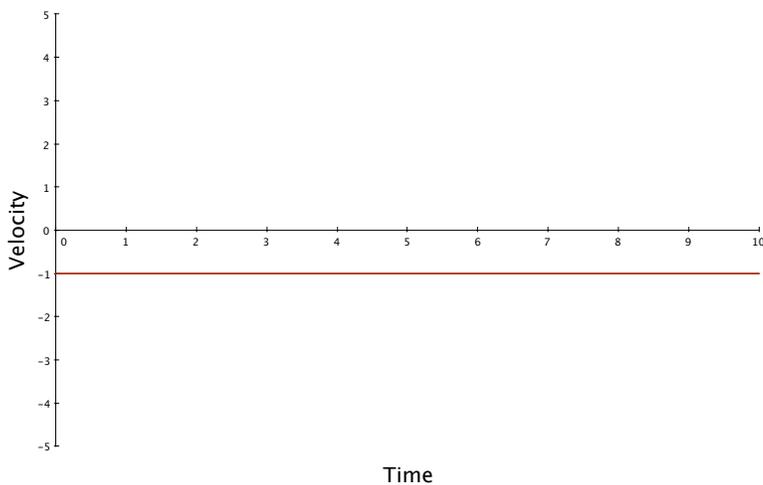
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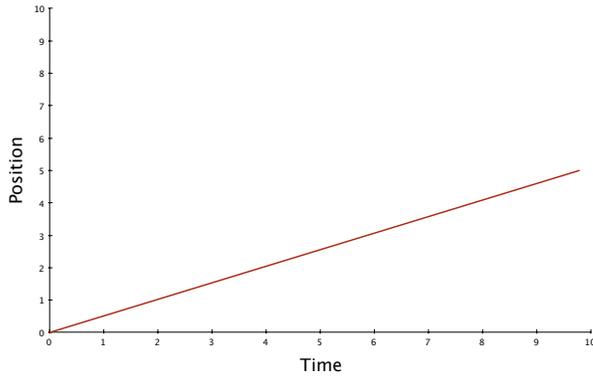


- at rest
- constant positive velocity
- constant negative velocity
- constant positive acceleration
- constant negative acceleration

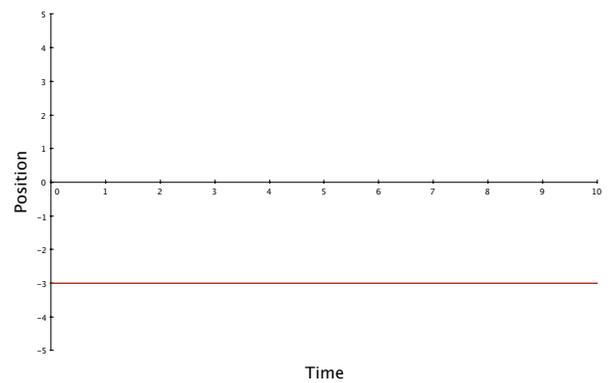
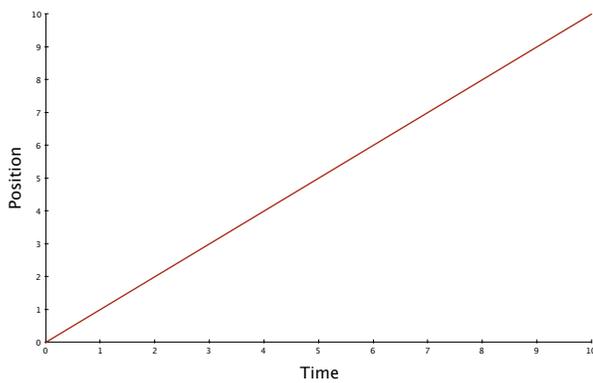
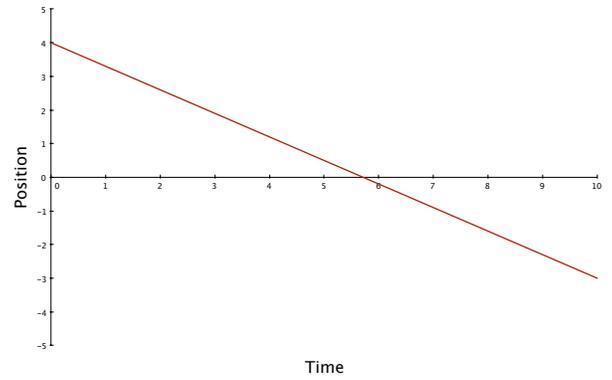
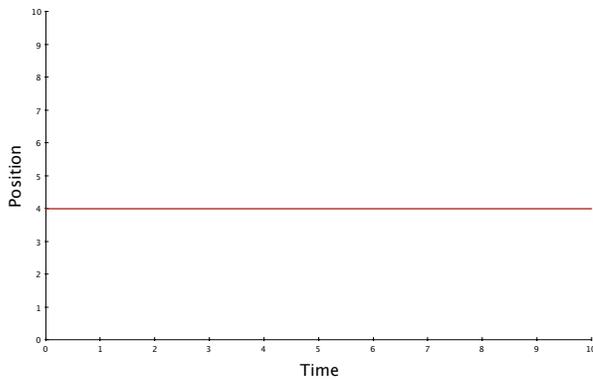
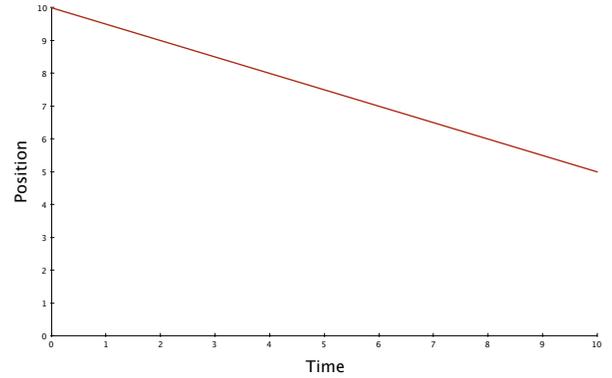


- at rest
- constant positive velocity
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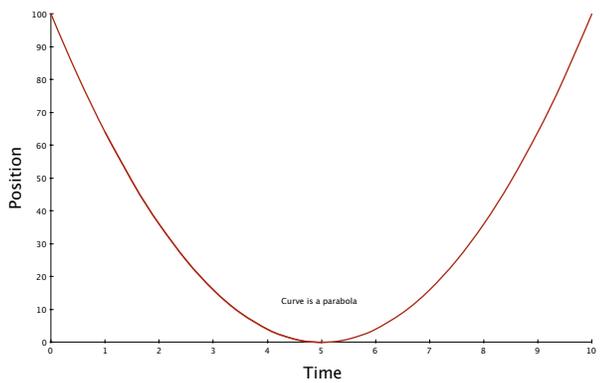
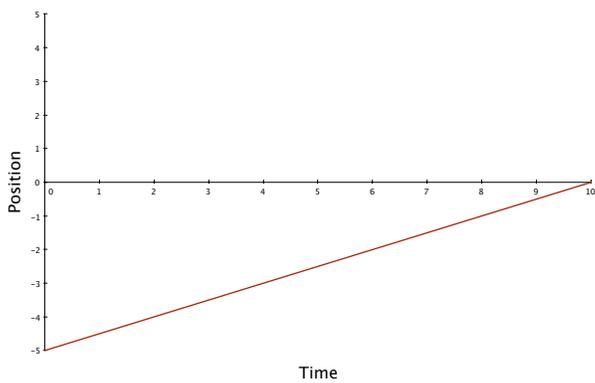
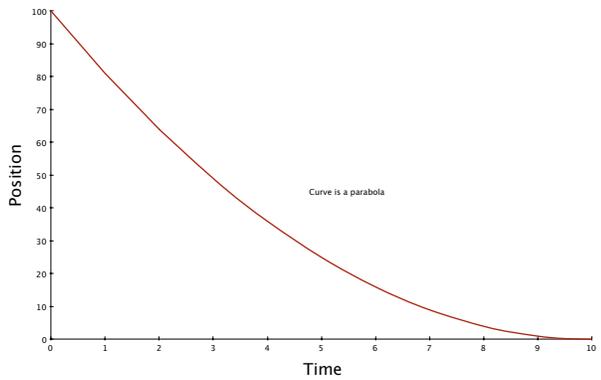
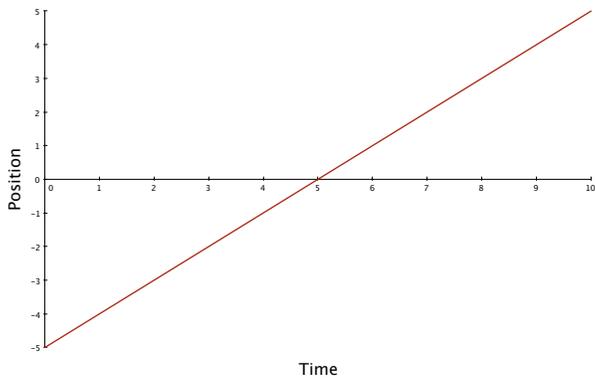
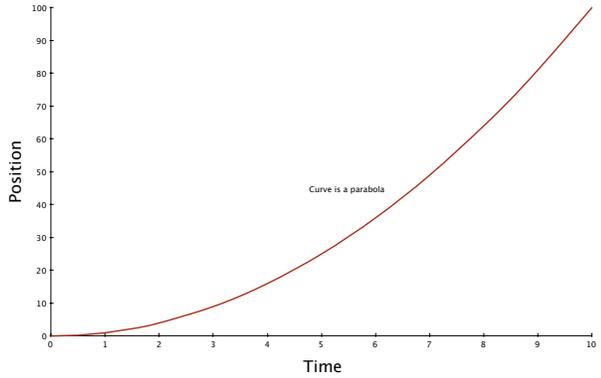
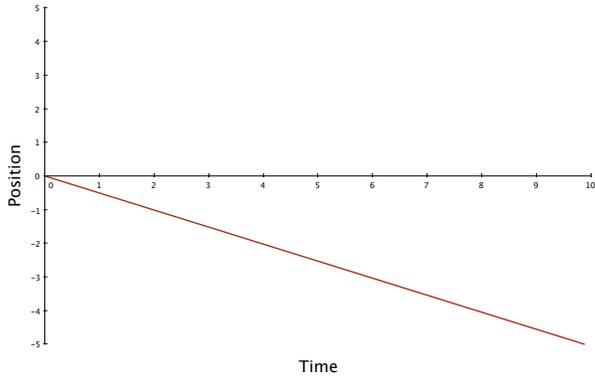
Describe the motion shown by the following graphs. Use terms like *constant positive velocity*, *at rest*, *positive acceleration from rest*, and so on.



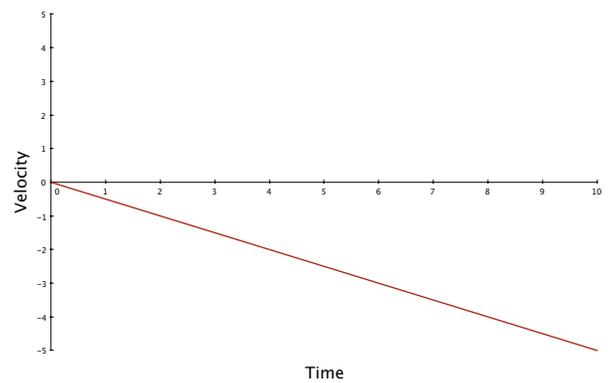
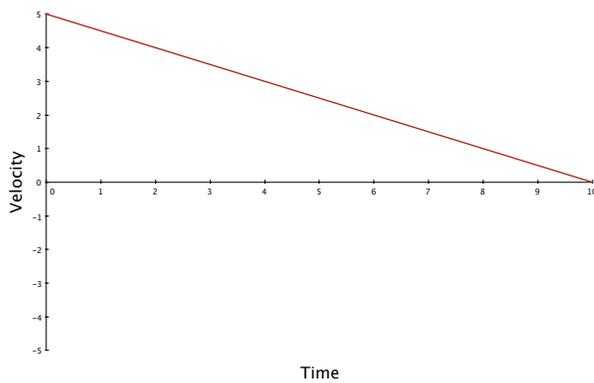
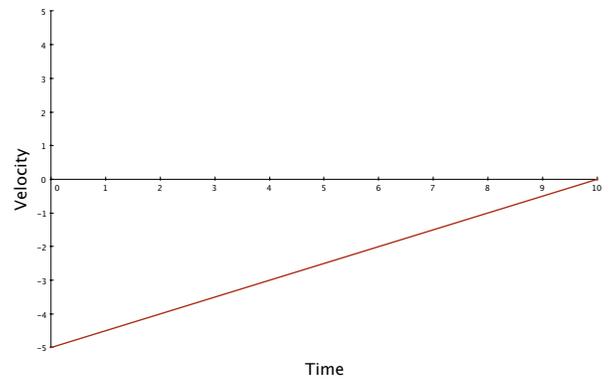
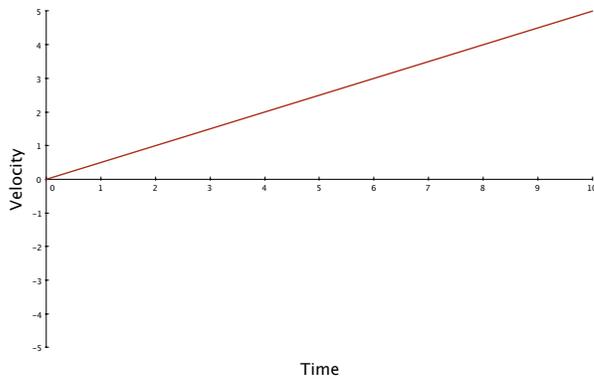
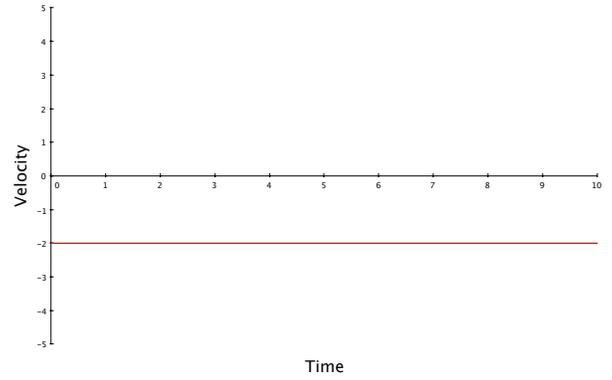
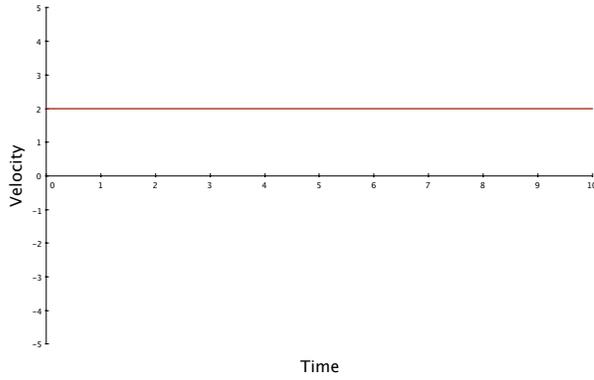
*constant positive velocity*  
*uniform motion (forward)*



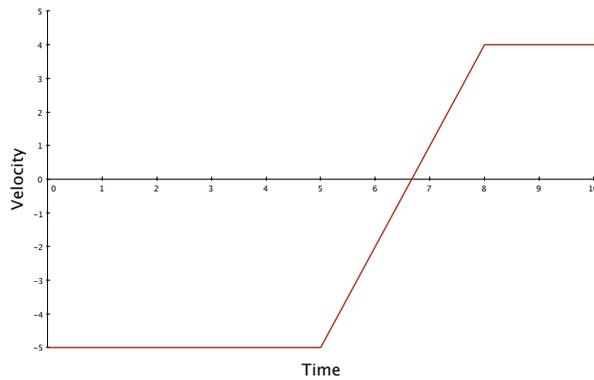
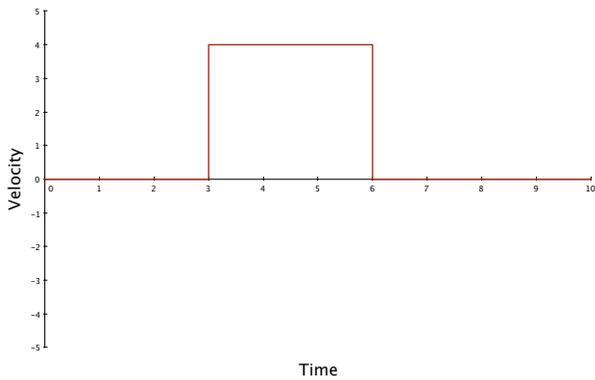
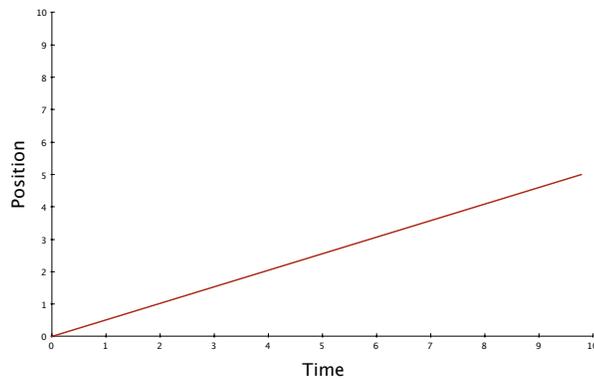
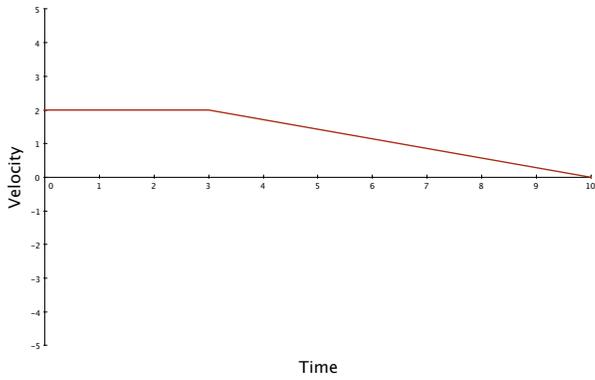
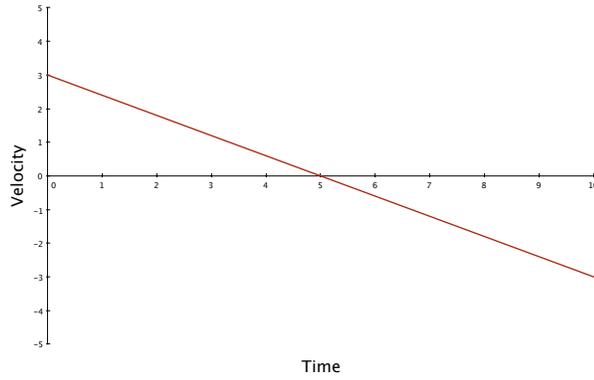
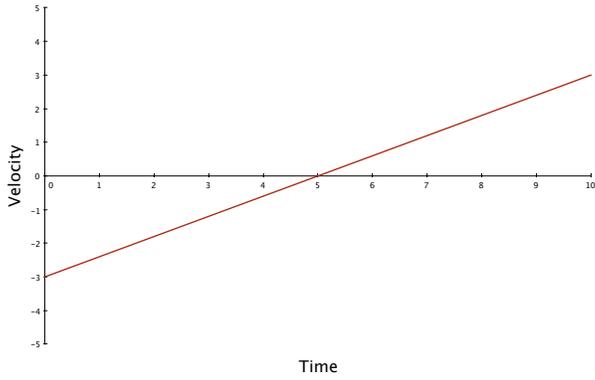
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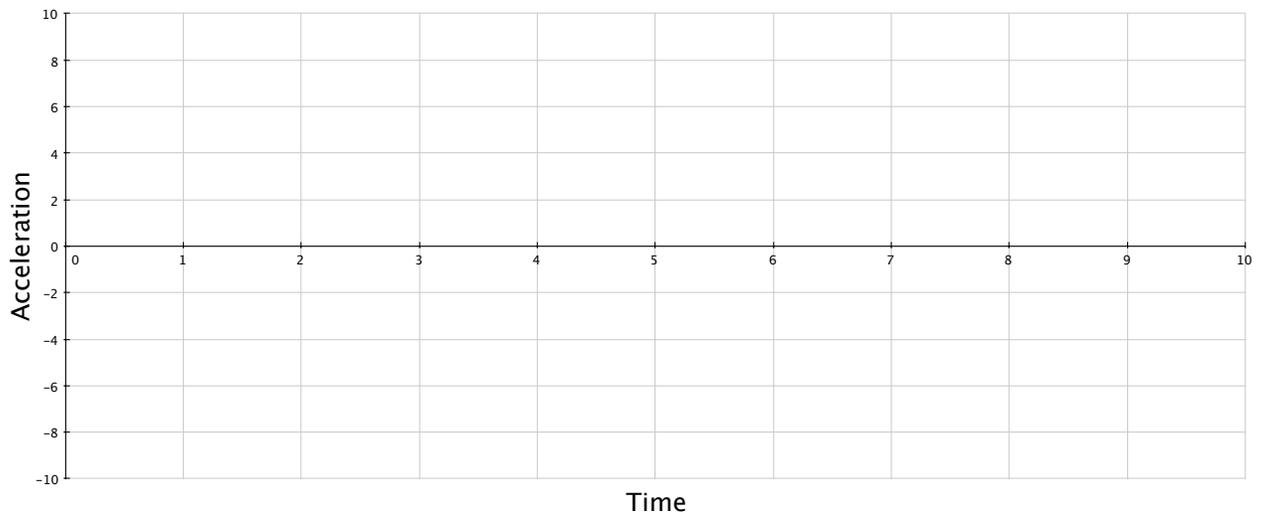
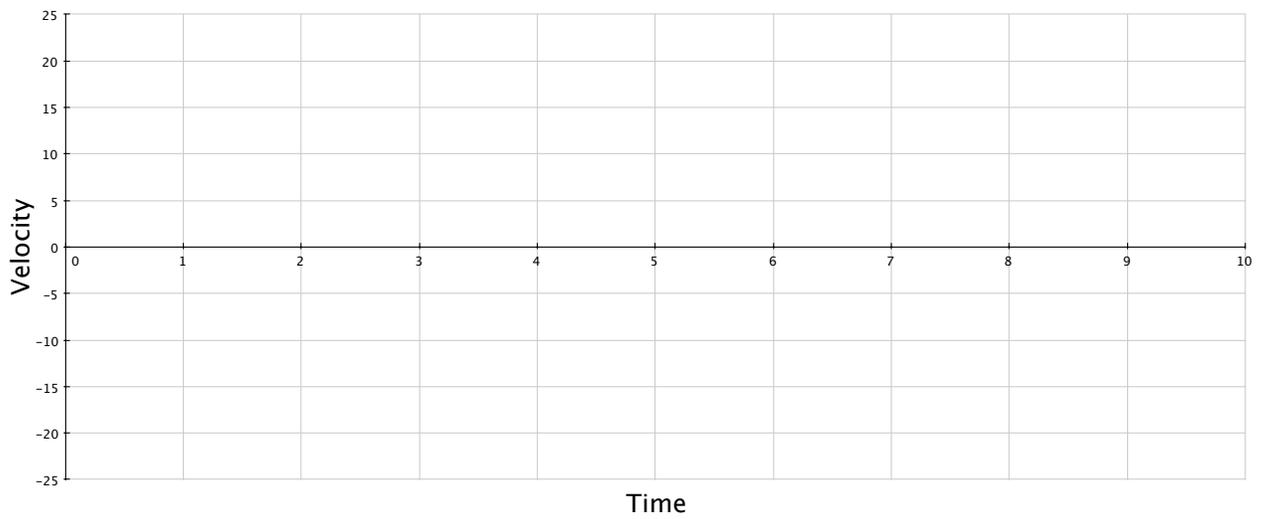
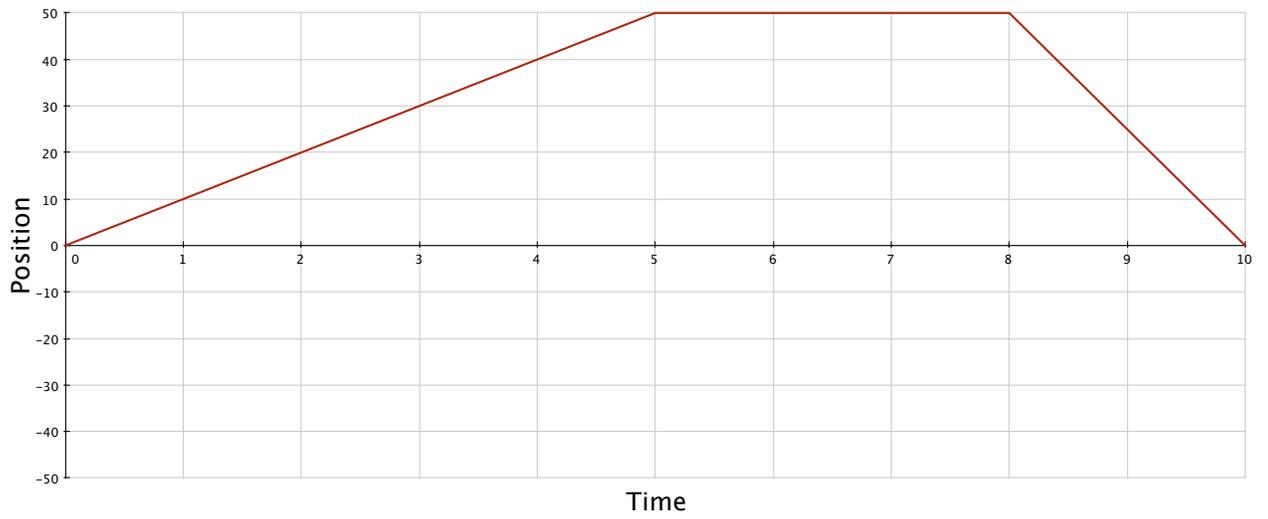
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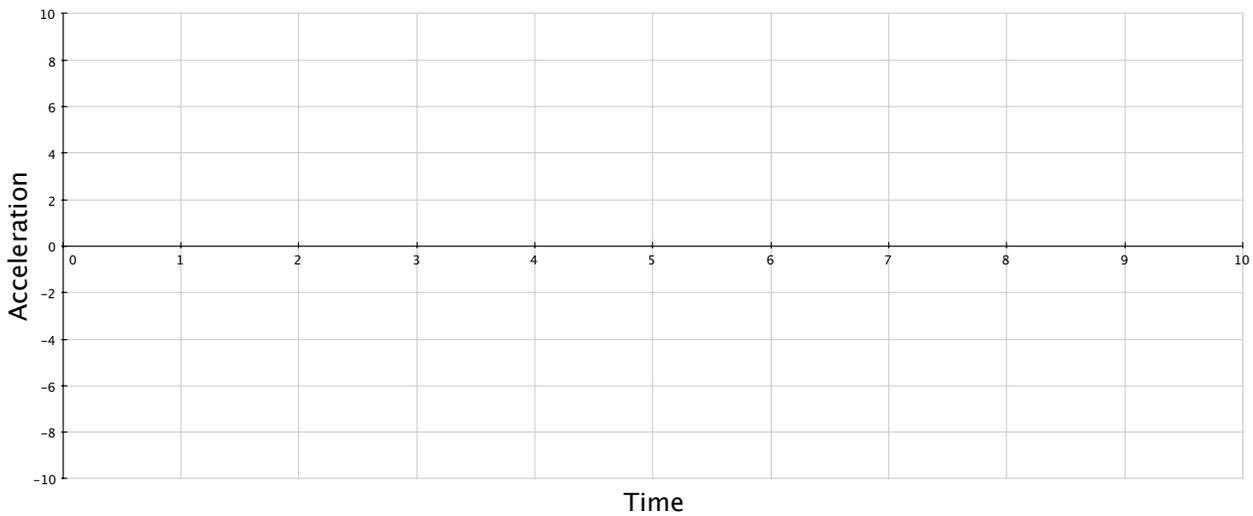
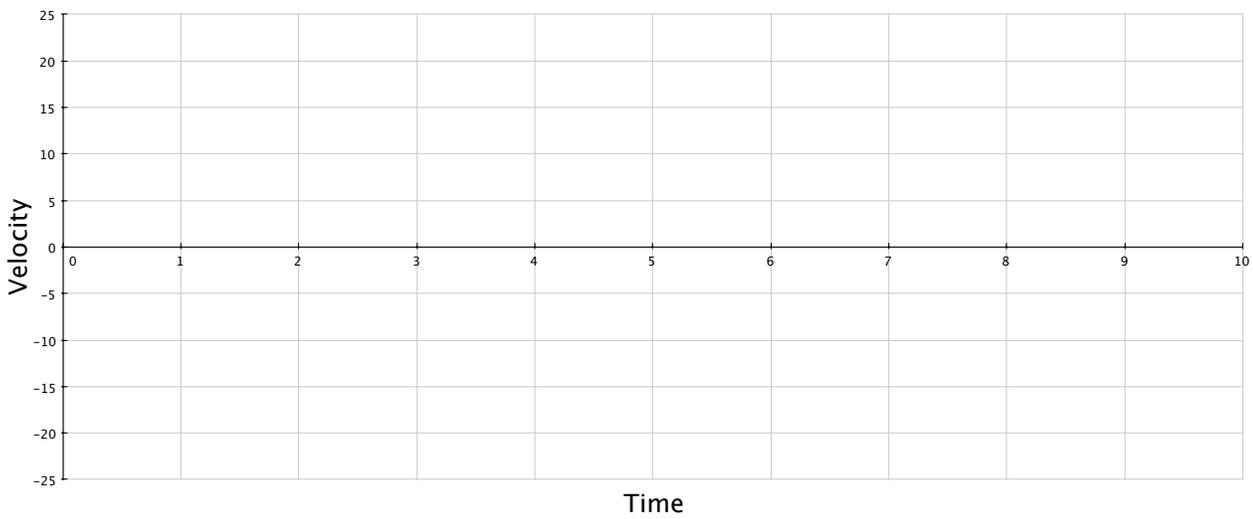
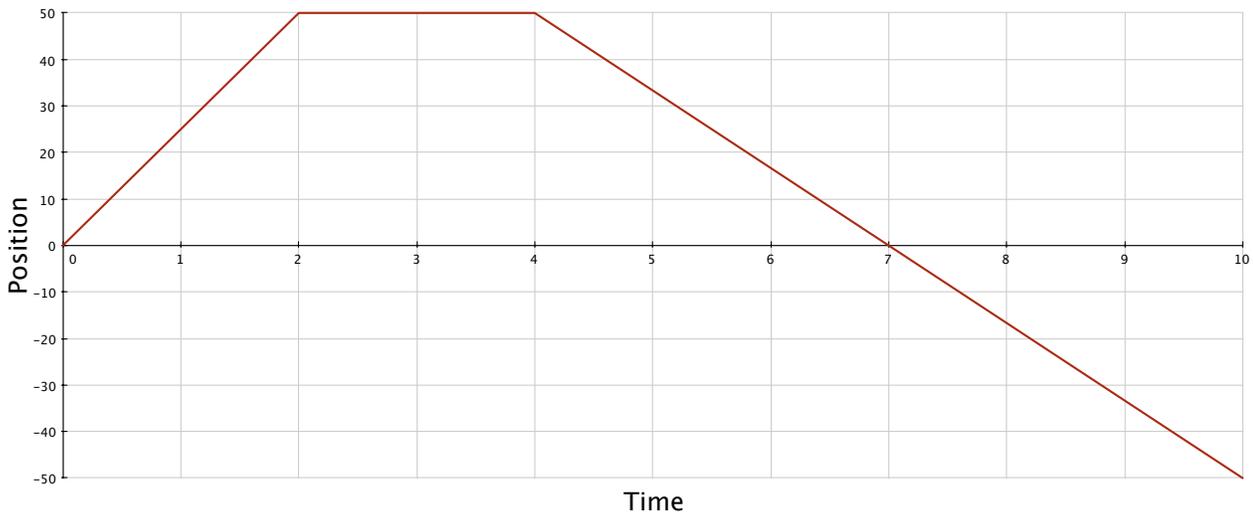
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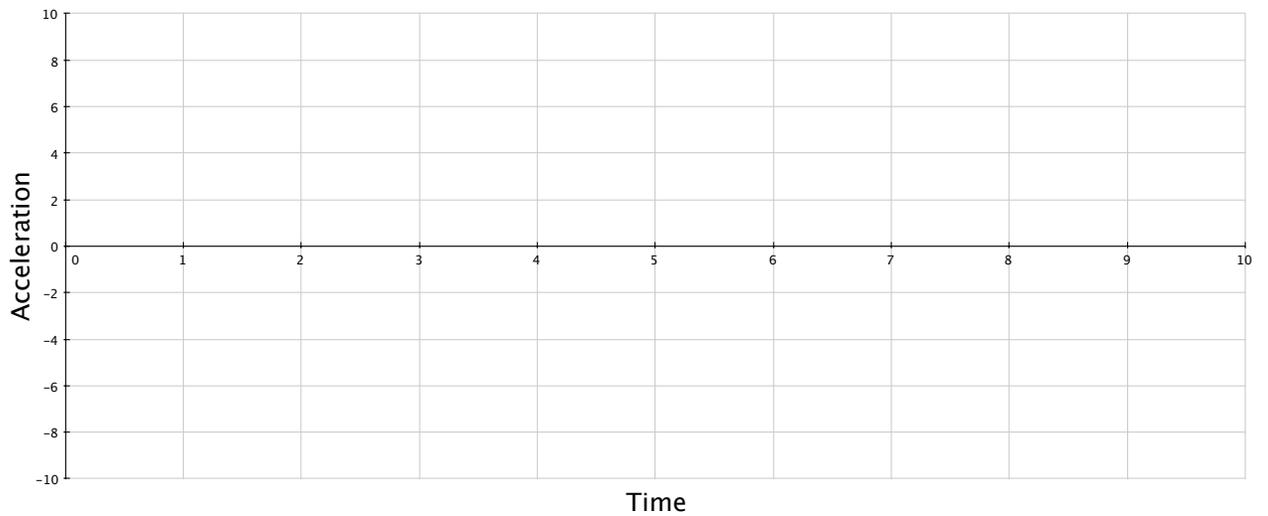
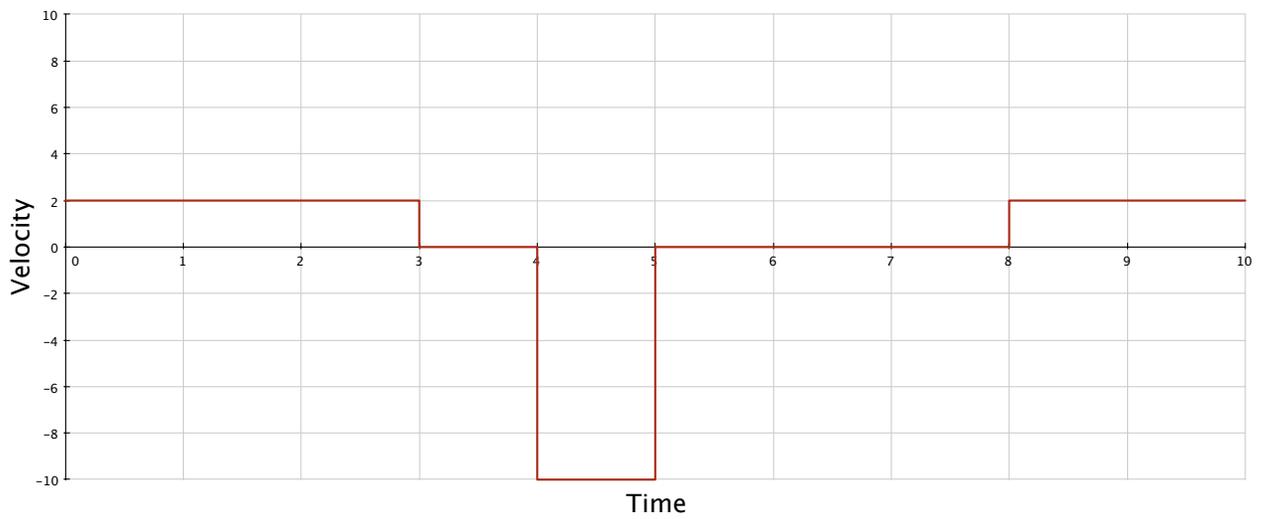
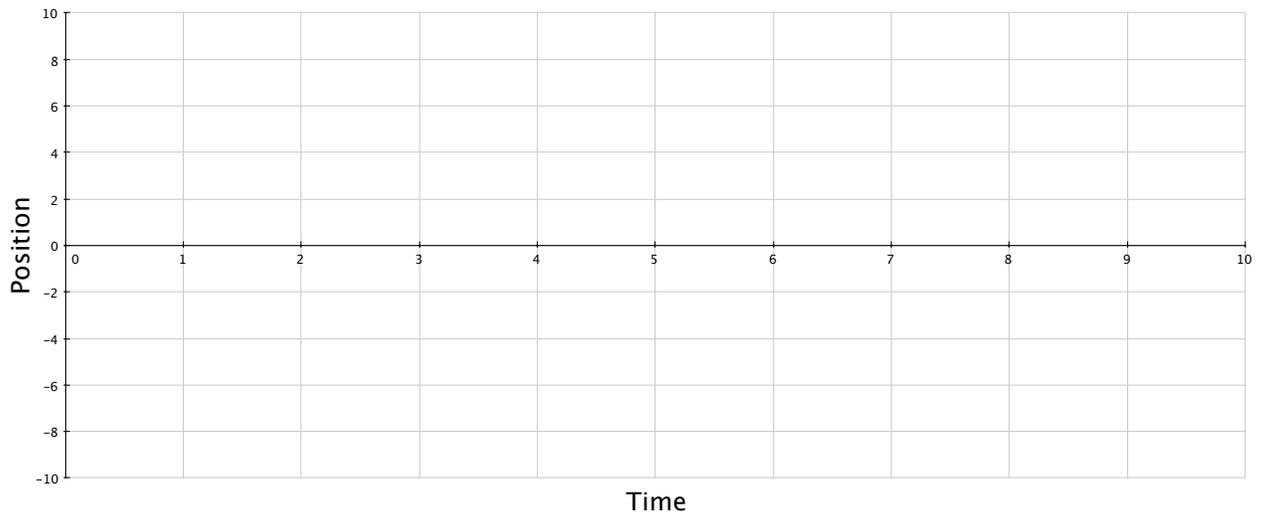
**Sketch the missing motion graphs.** Pay particular attention to shape and inflection points. Change the values of the vertical axis if necessary.



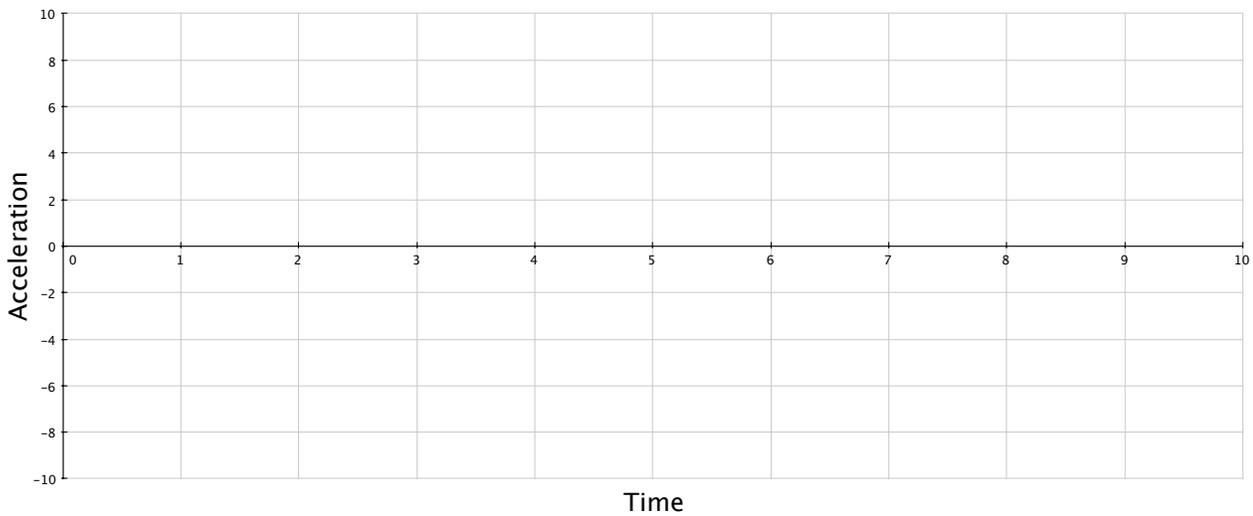
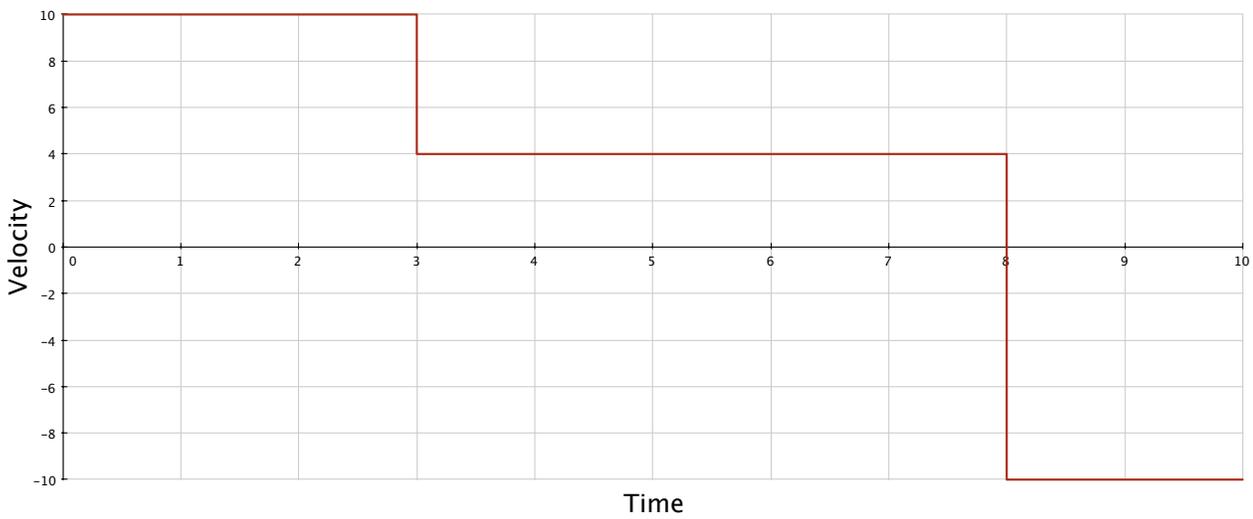
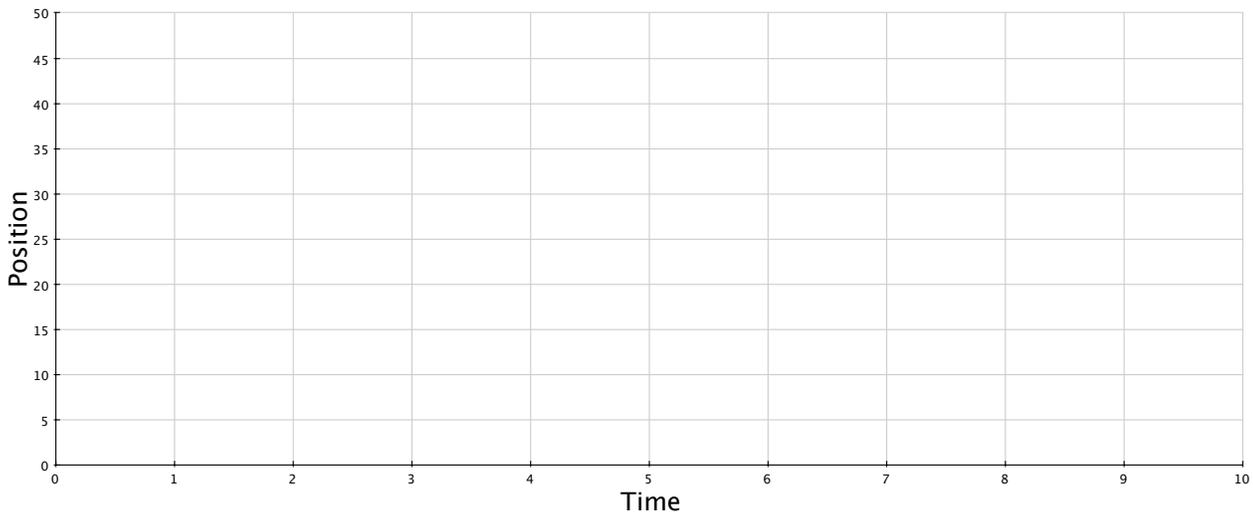
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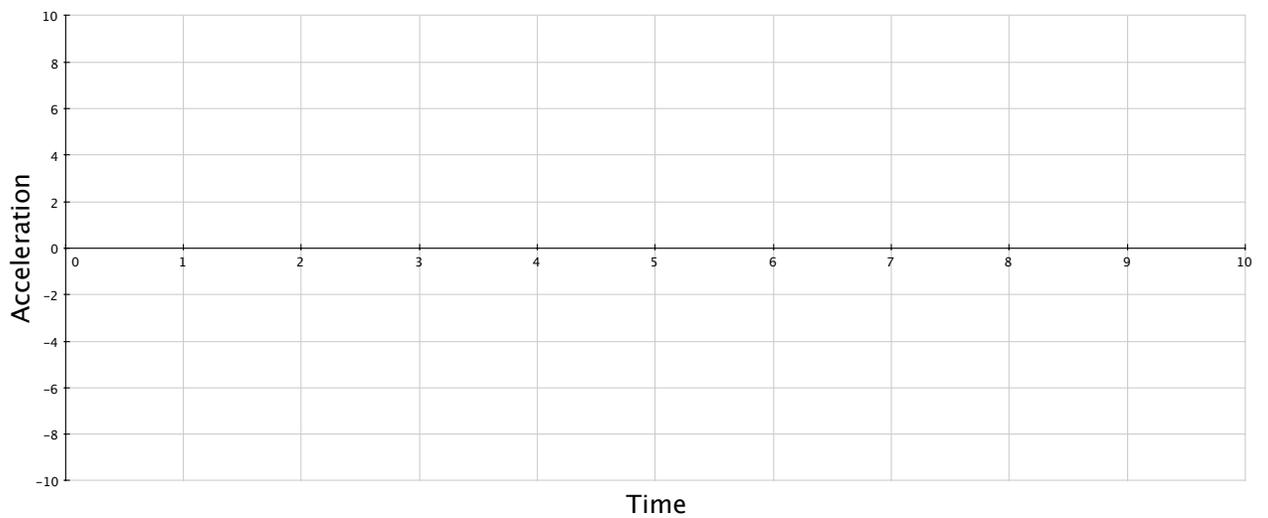
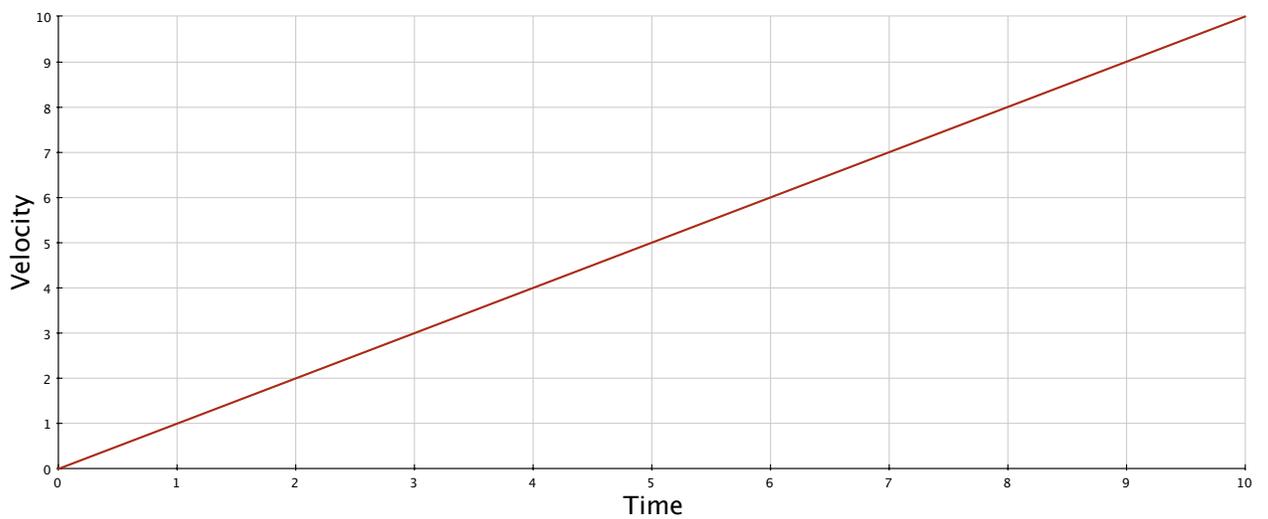
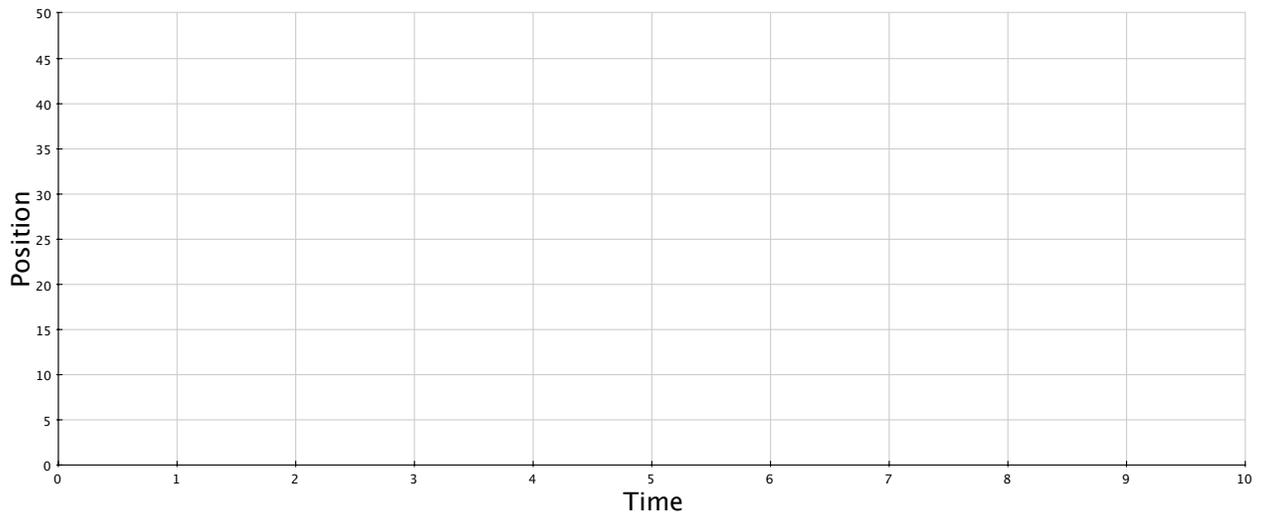
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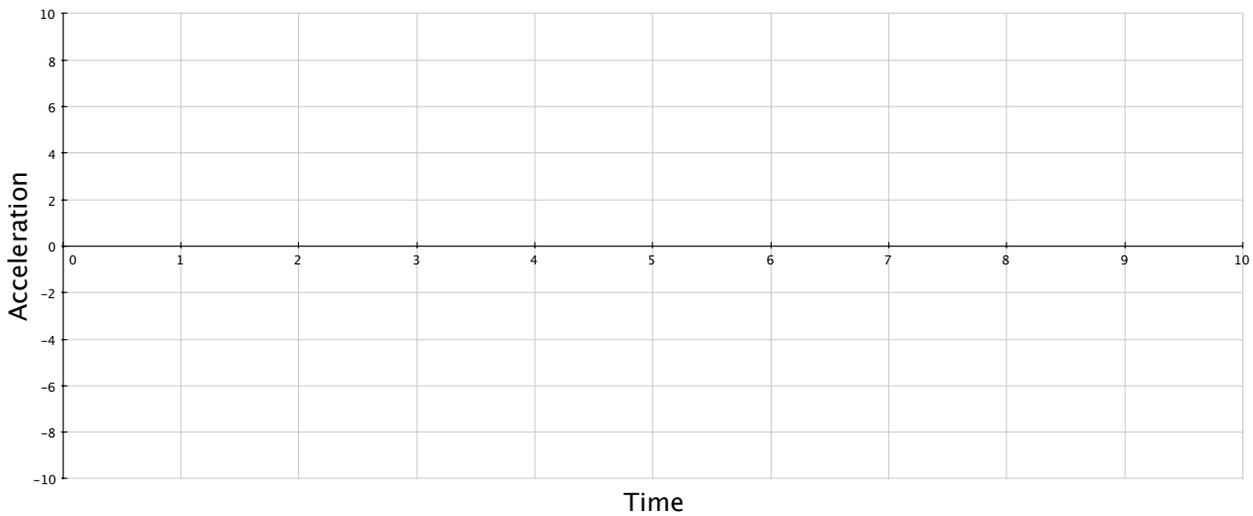
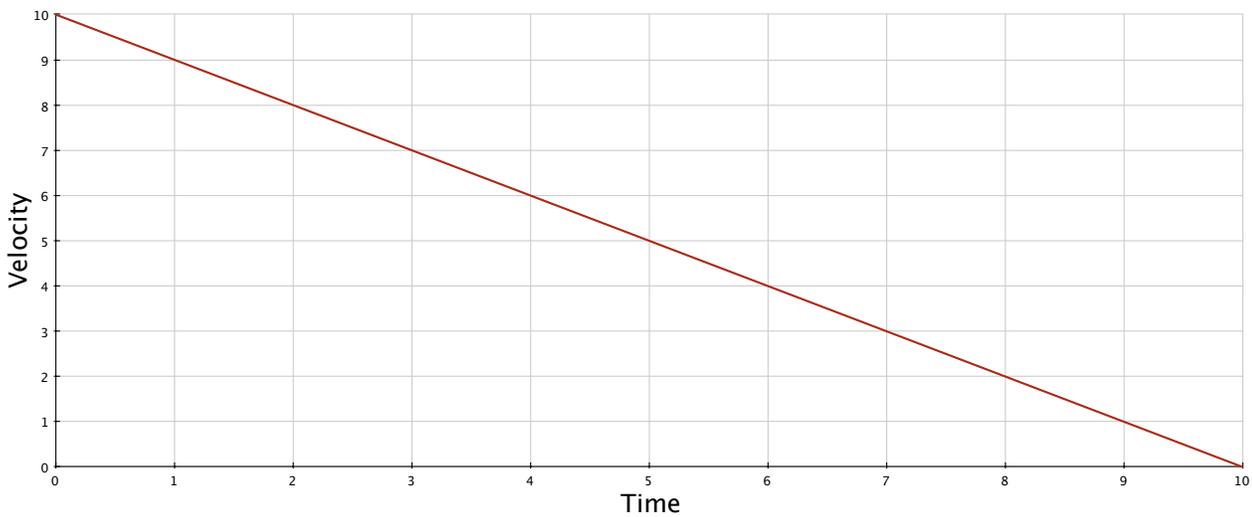
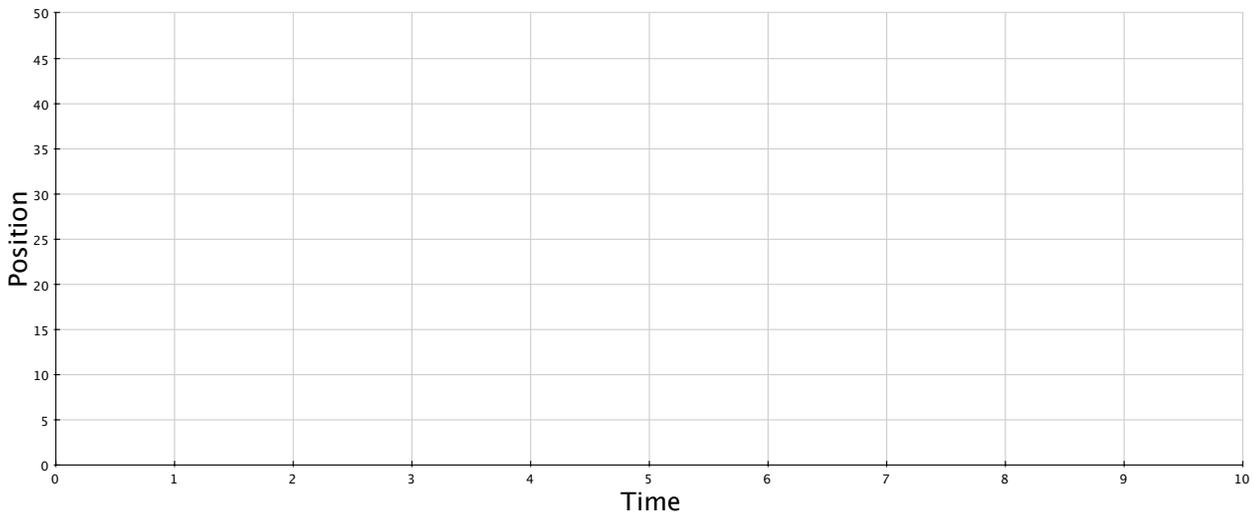
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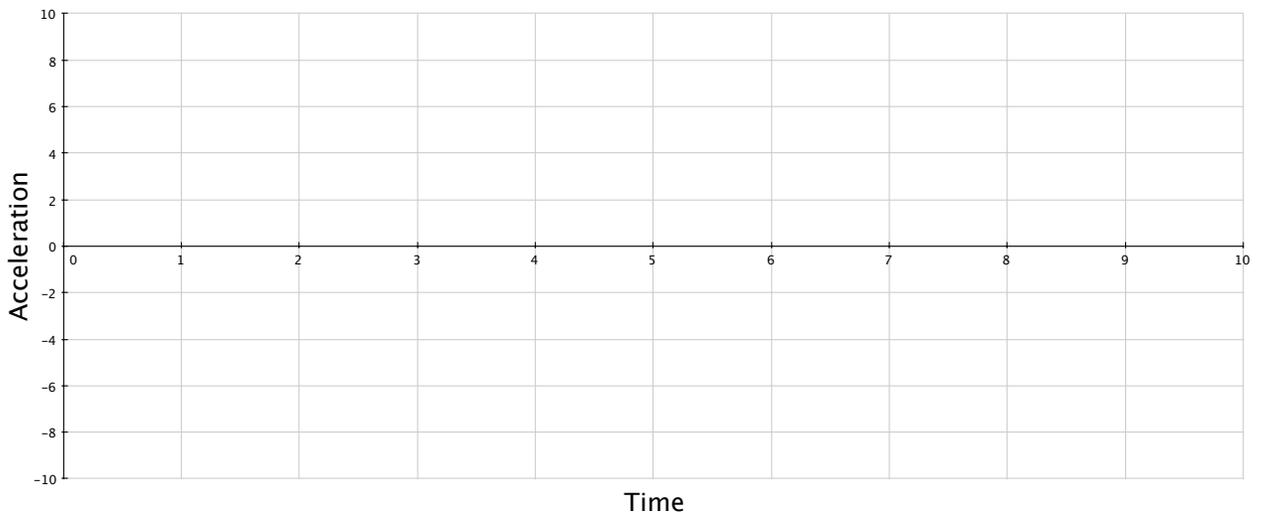
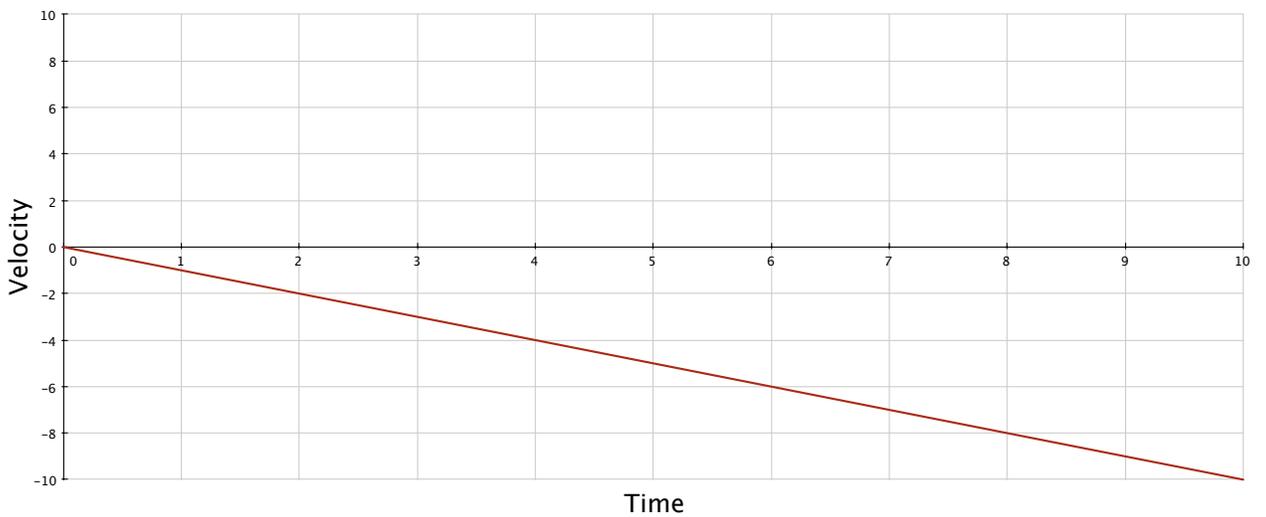
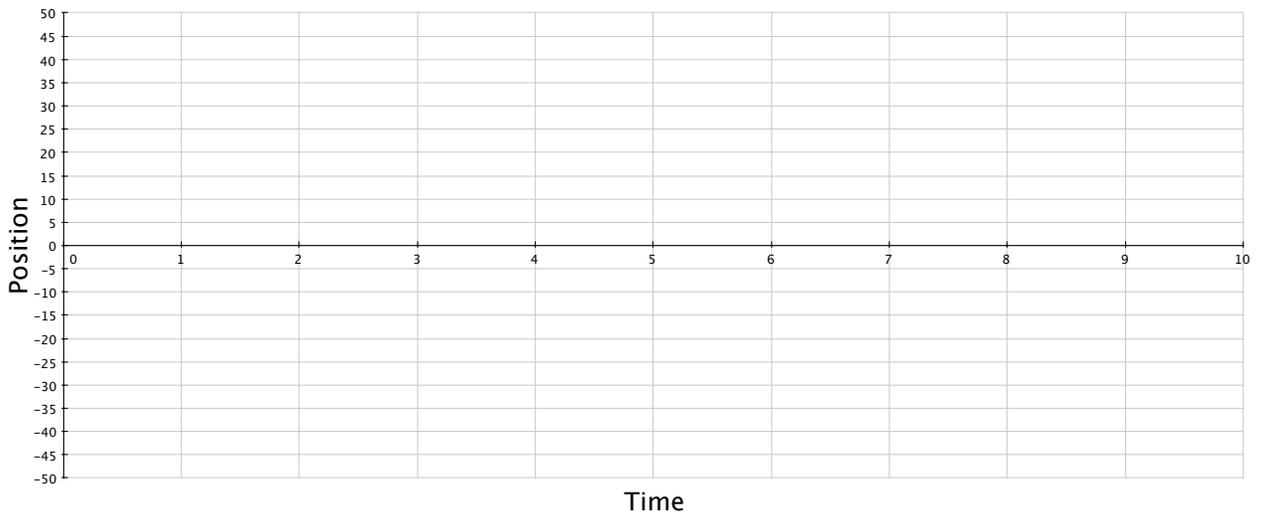
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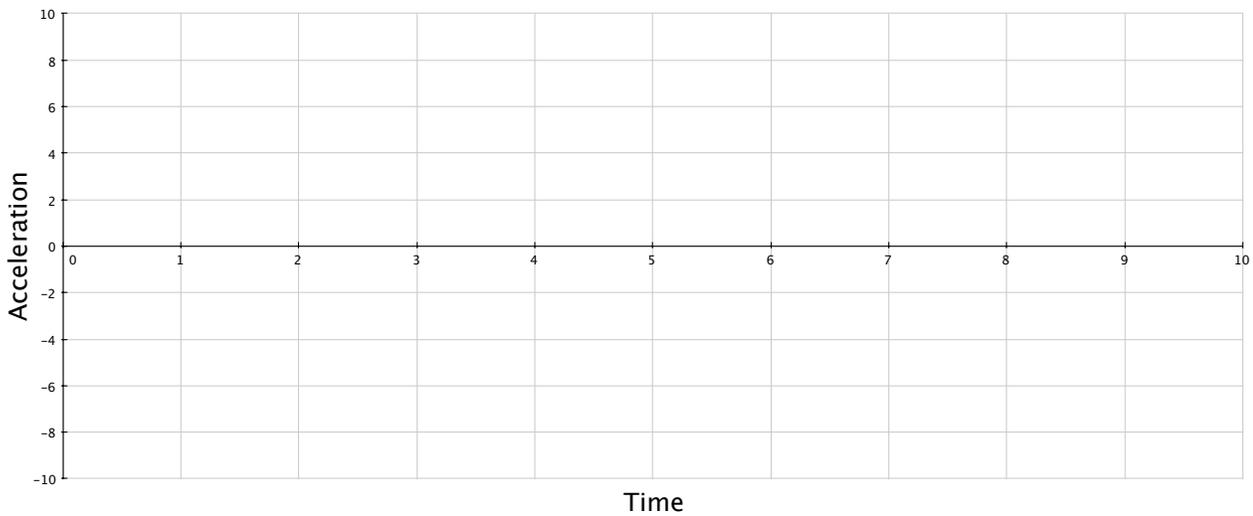
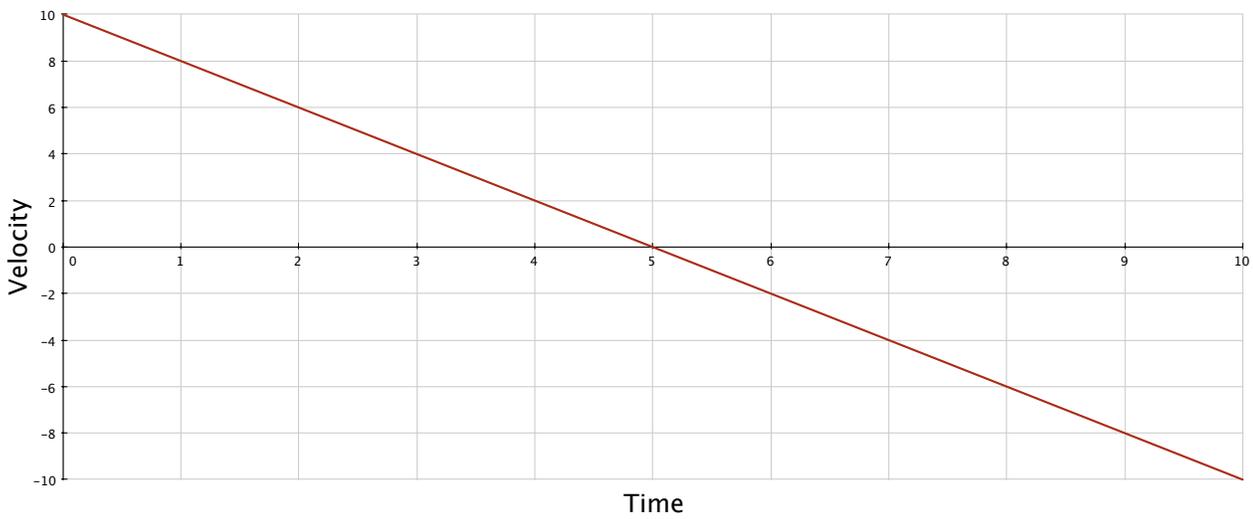
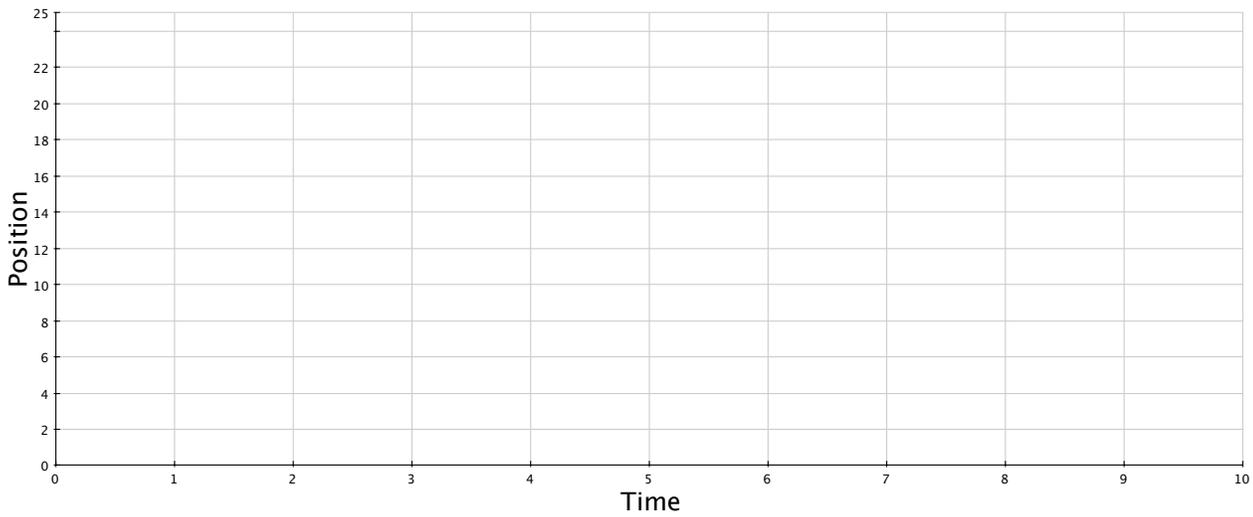
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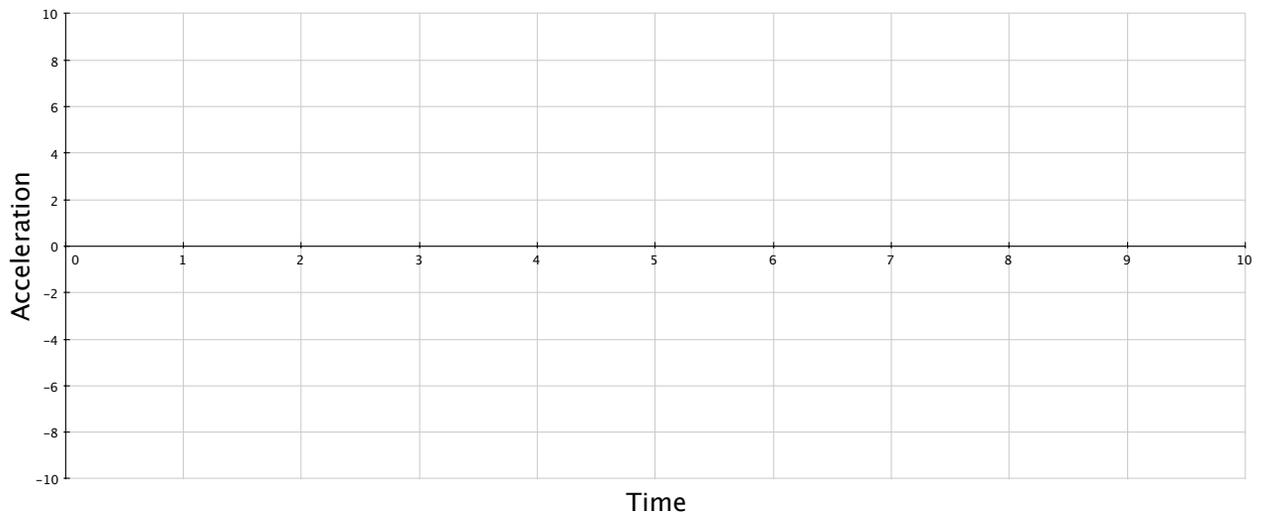
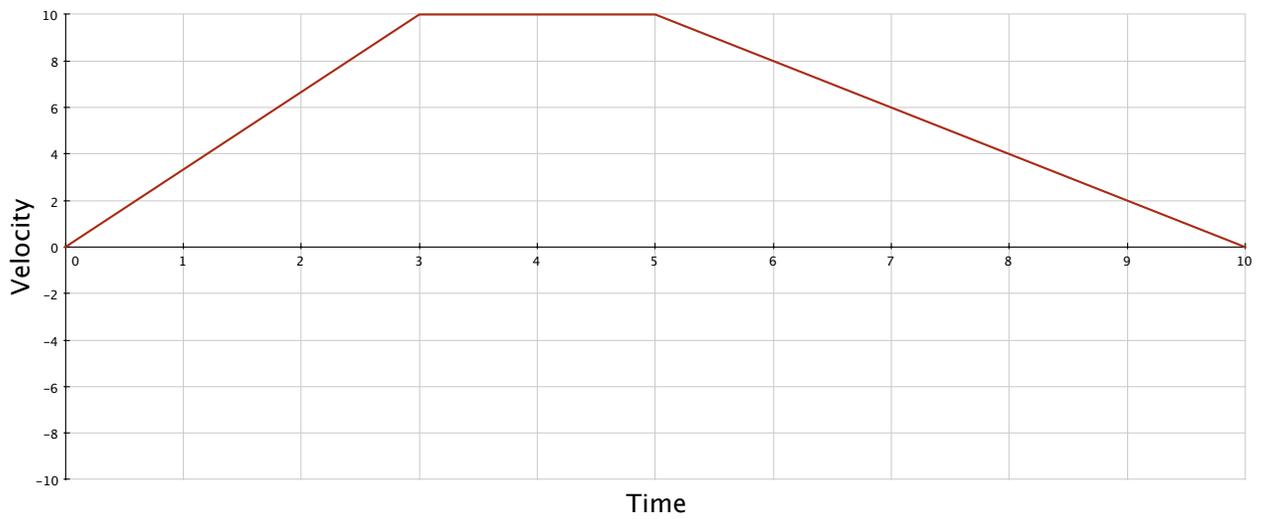
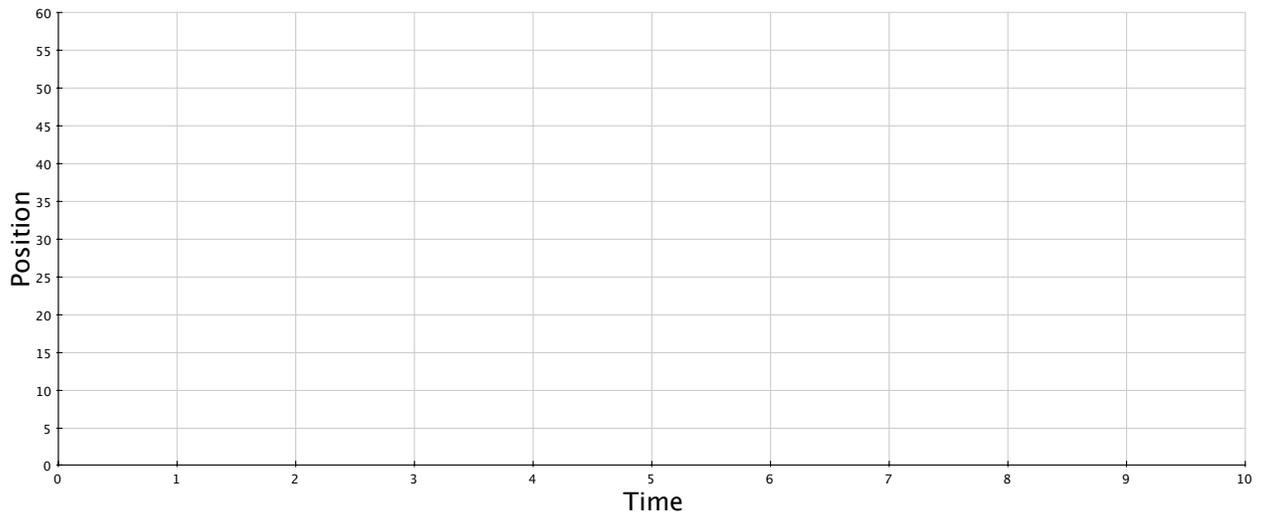
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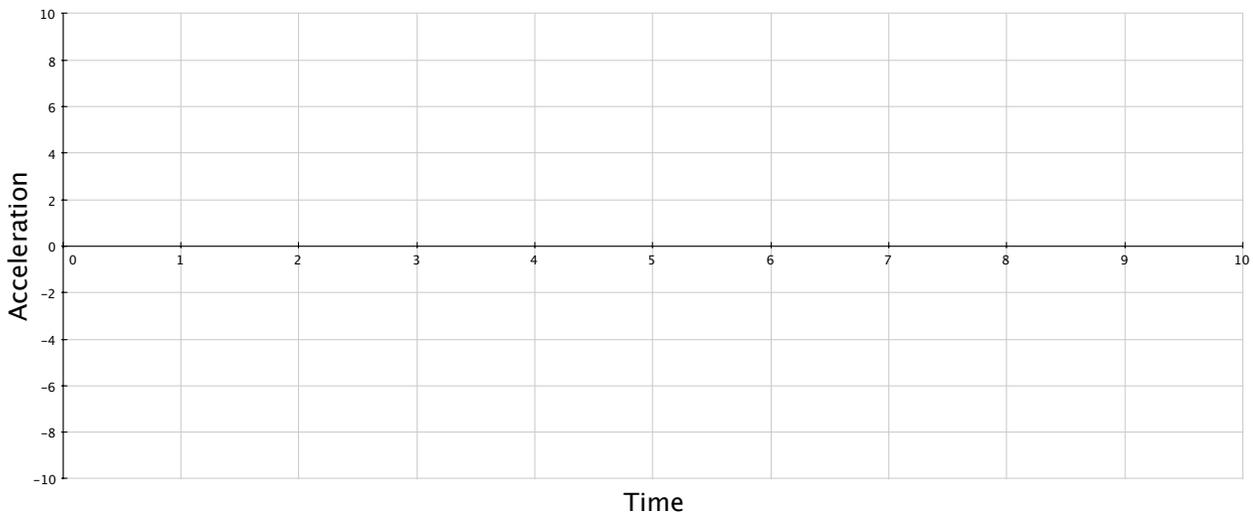
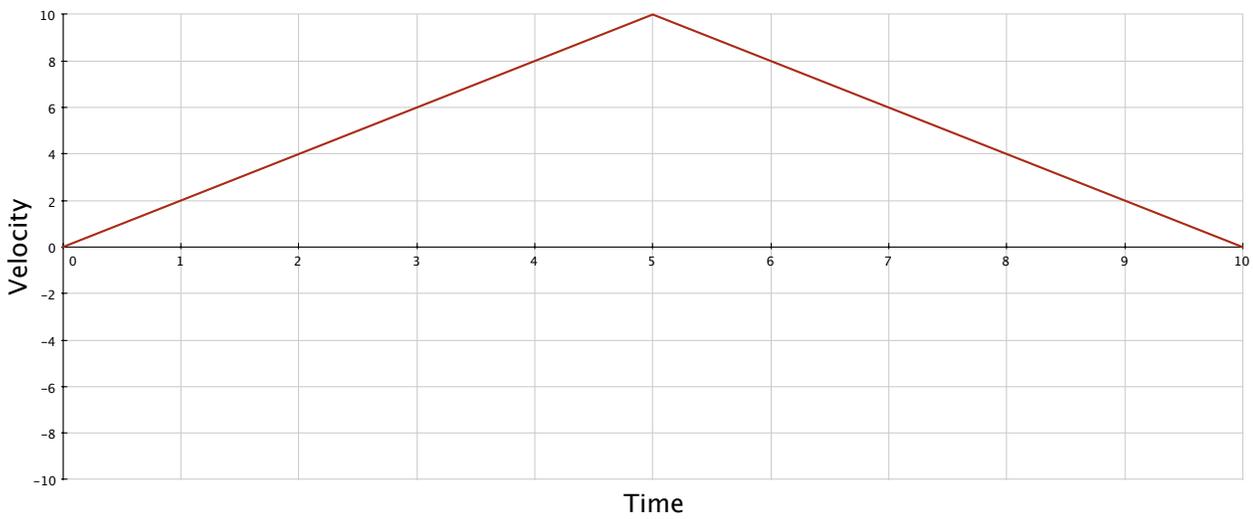
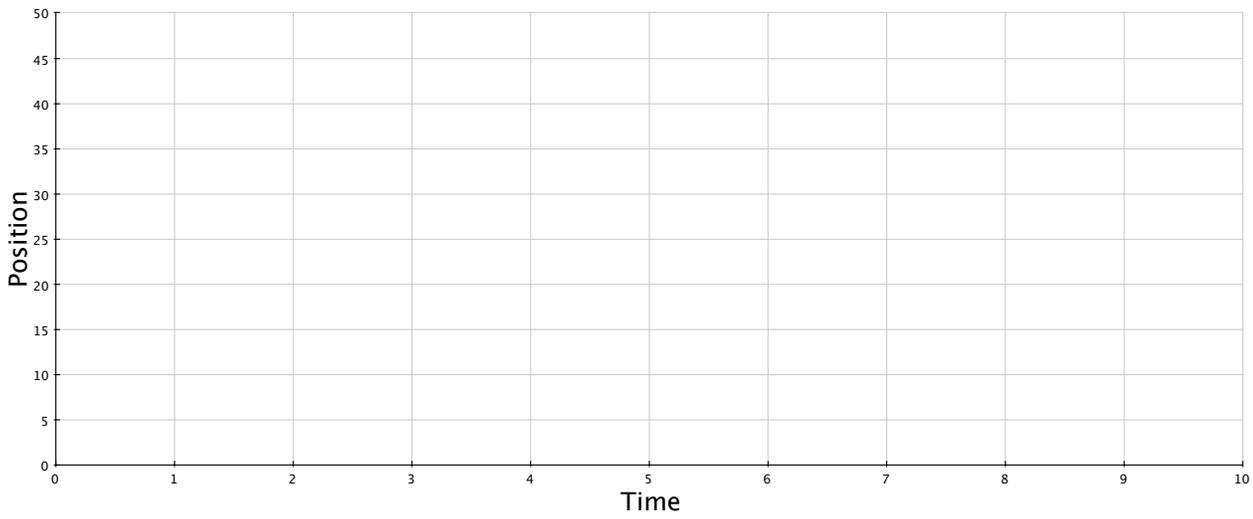
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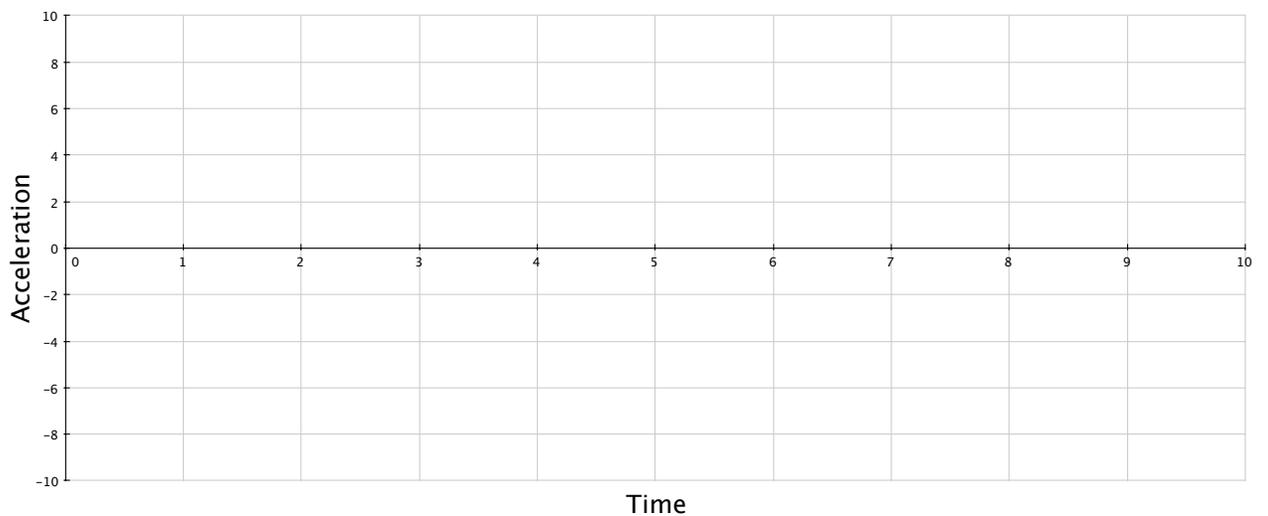
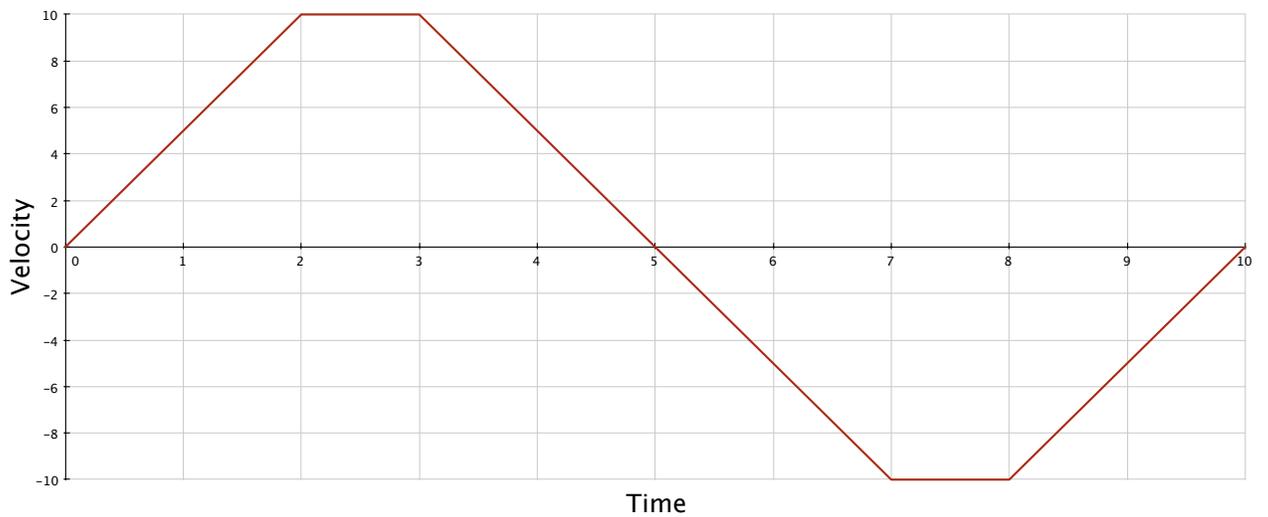
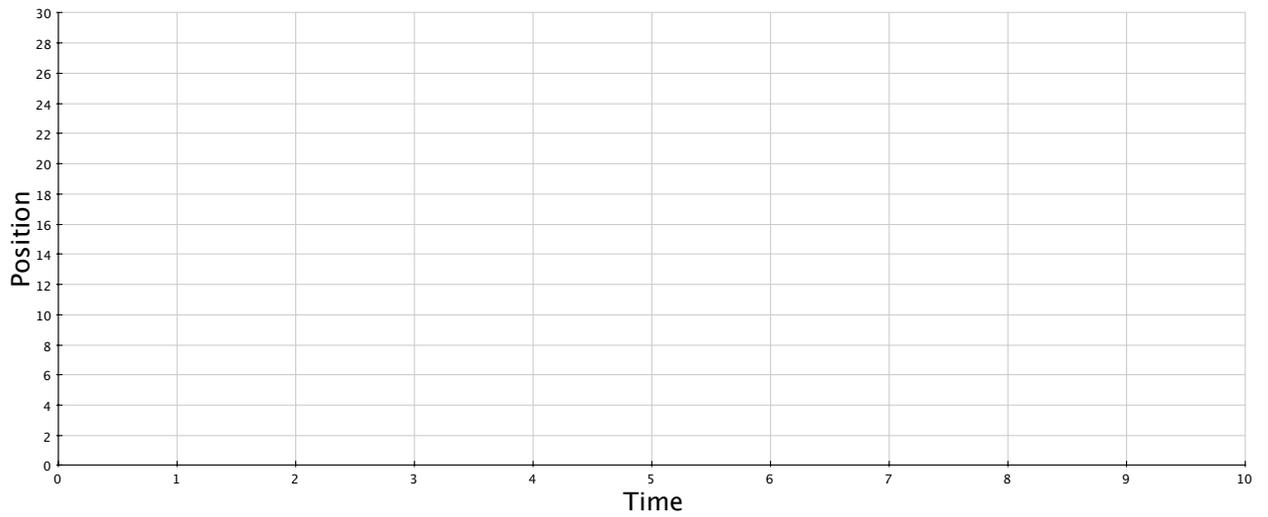
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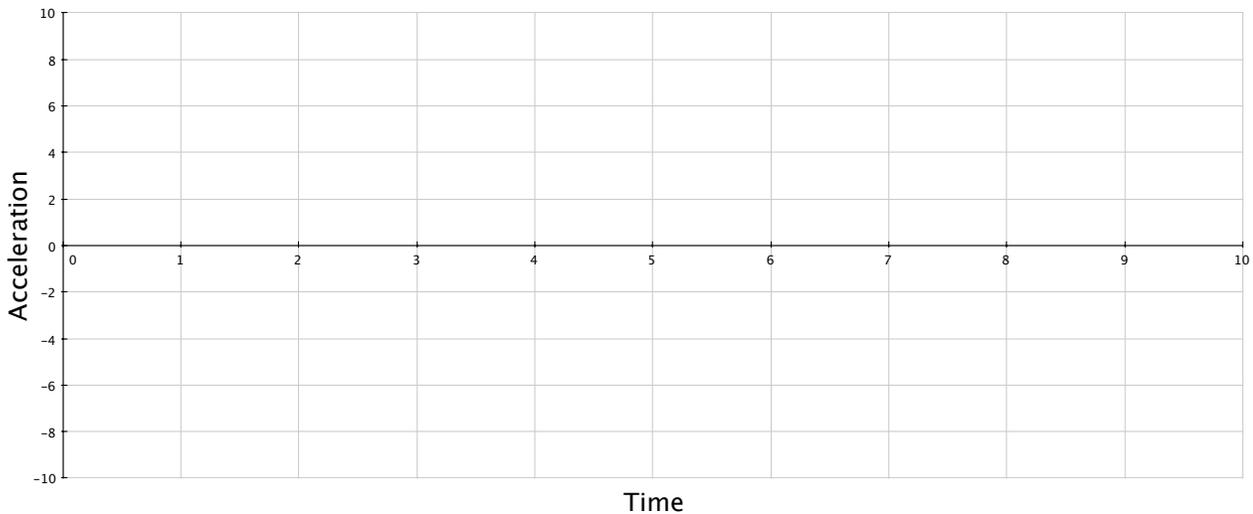
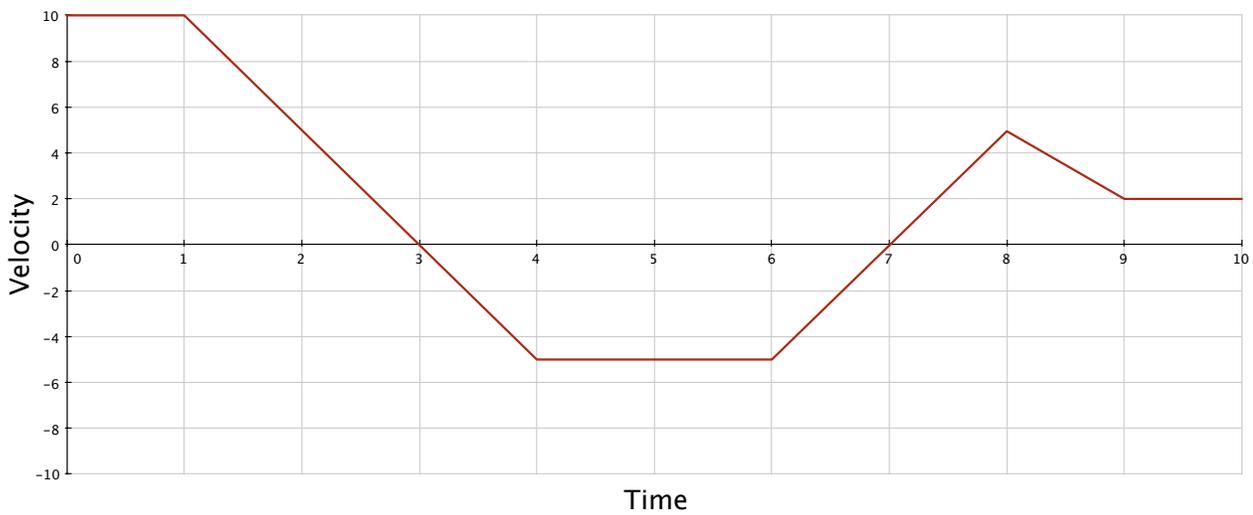
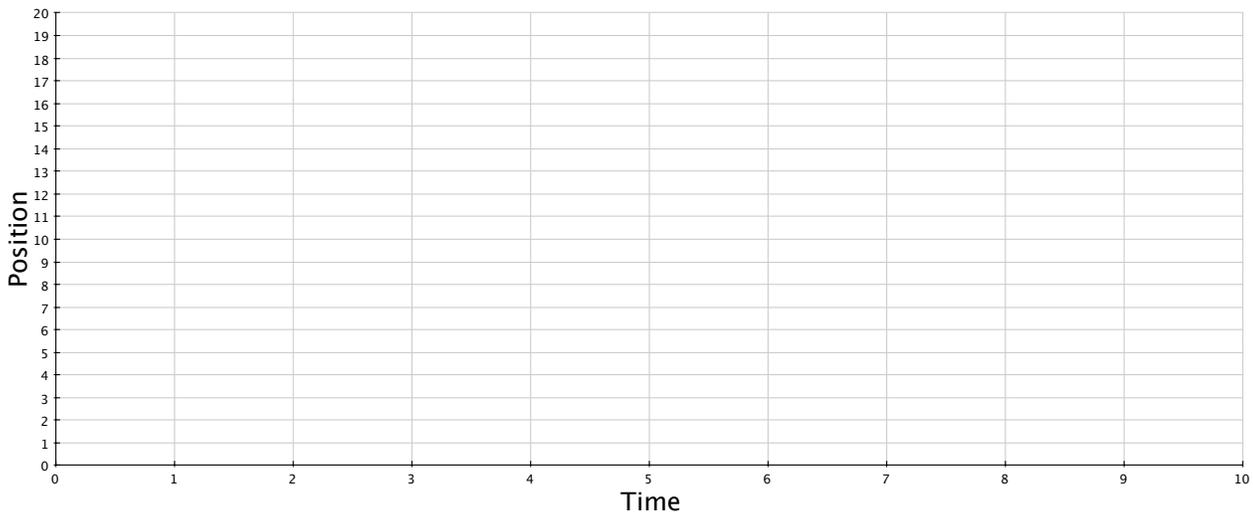
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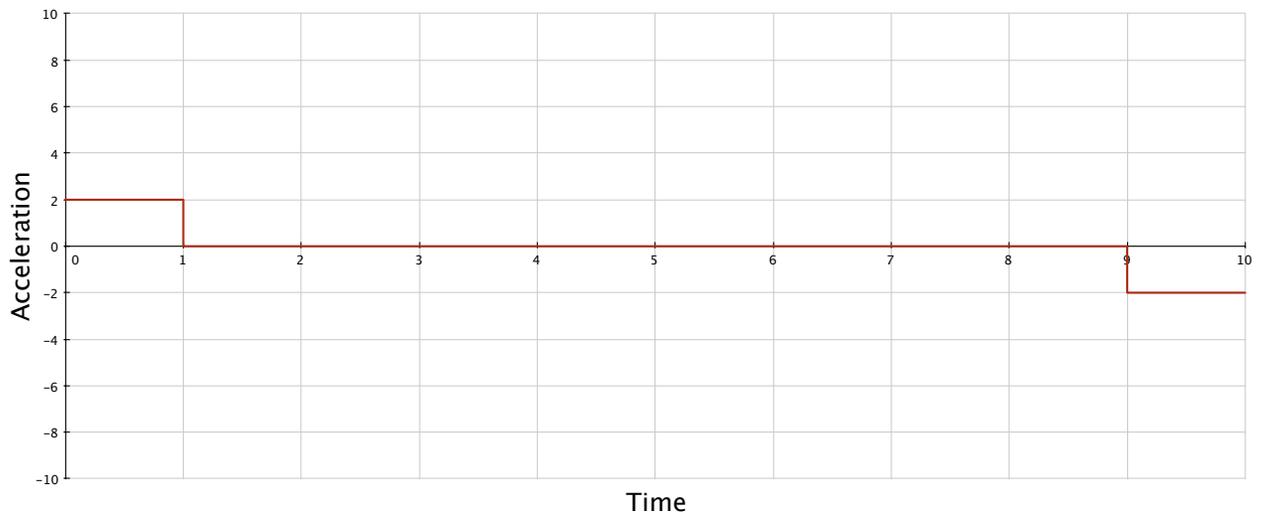
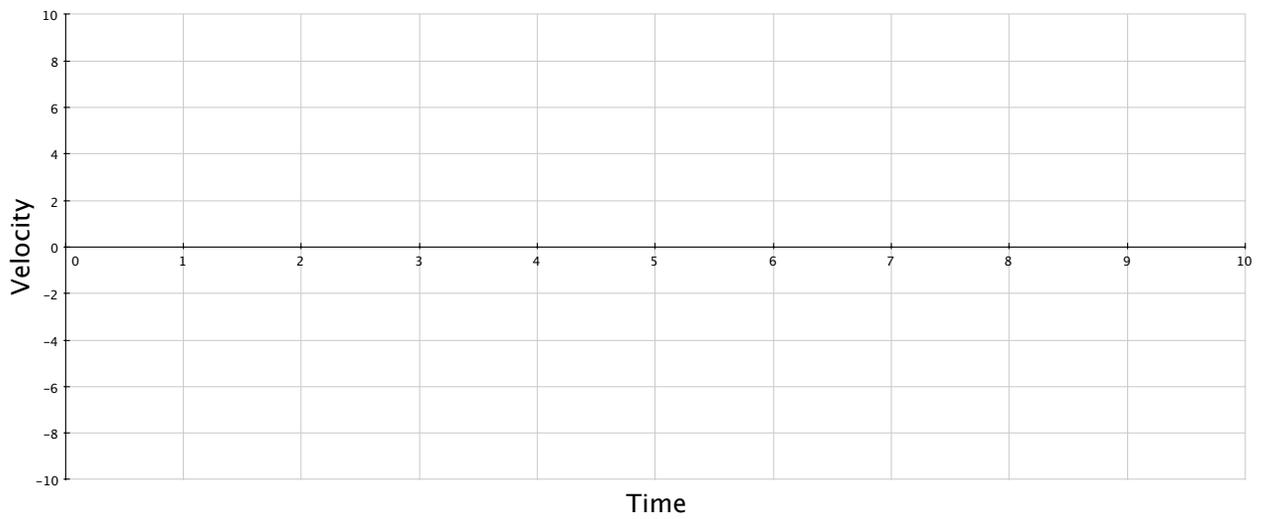
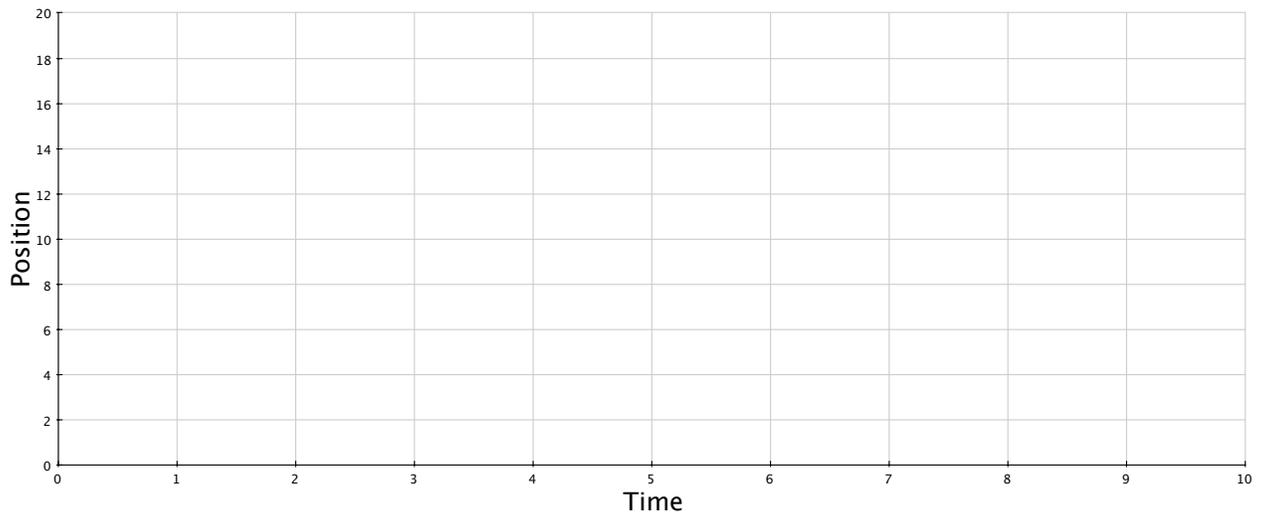
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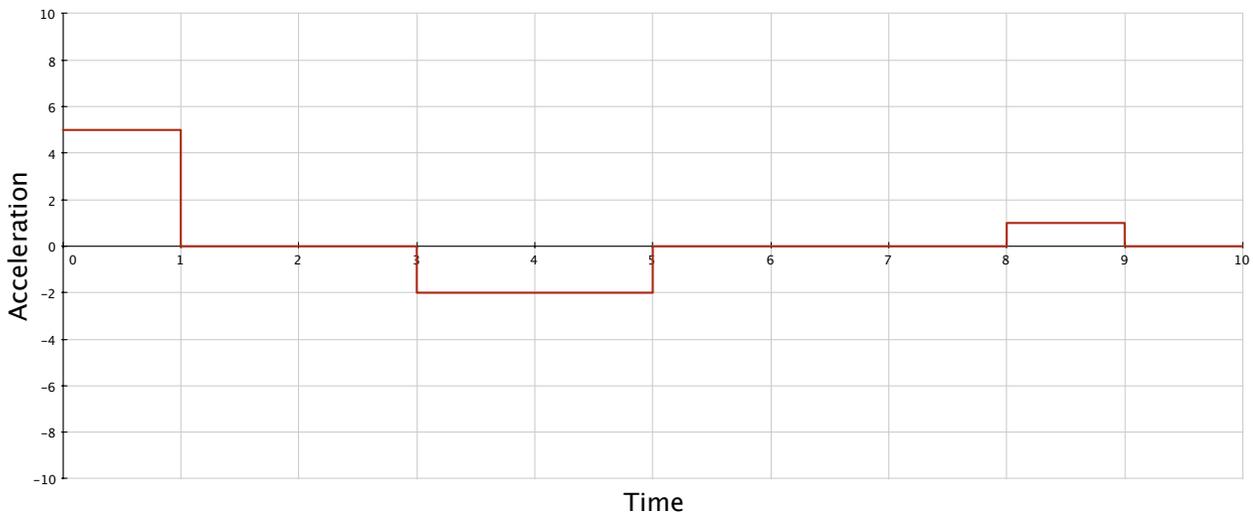
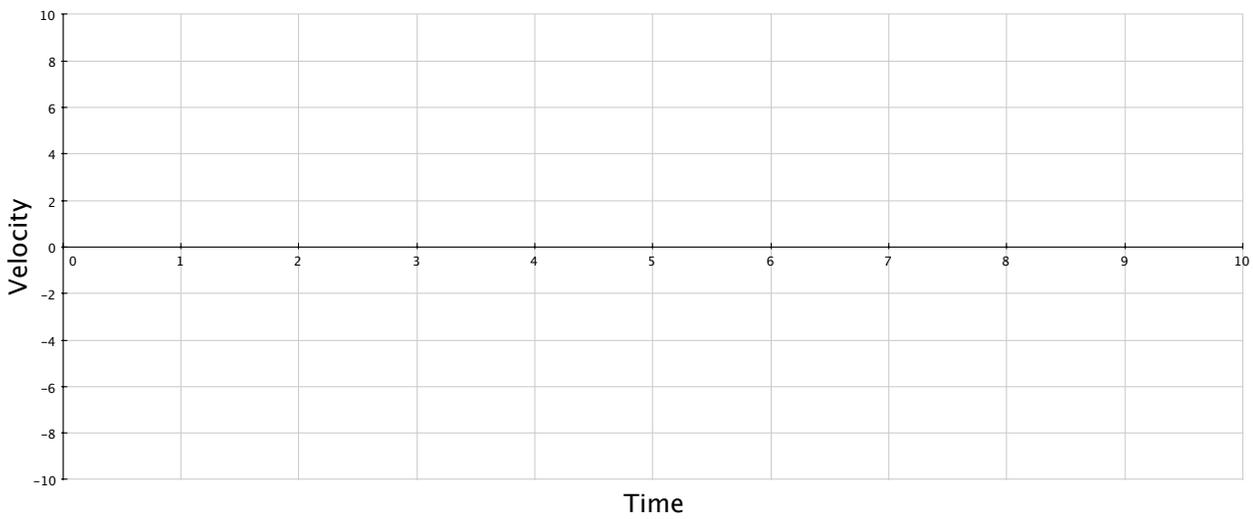
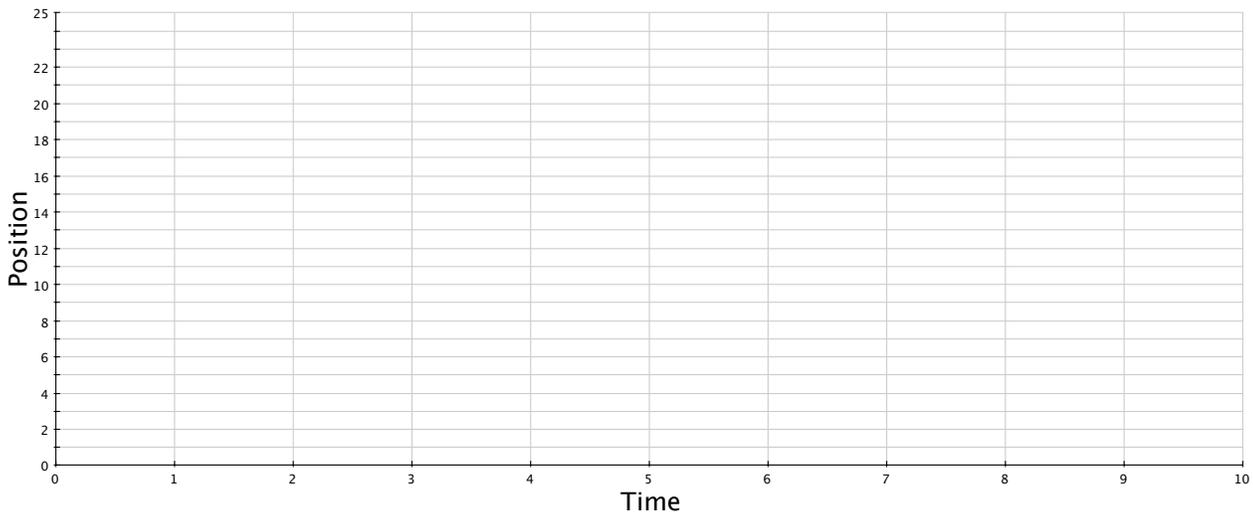
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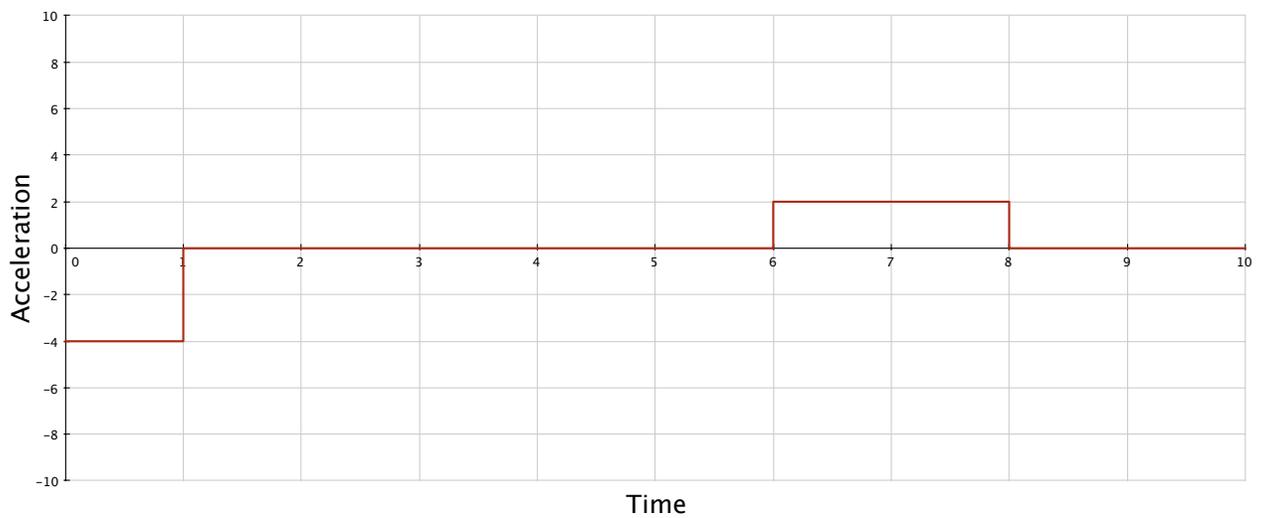
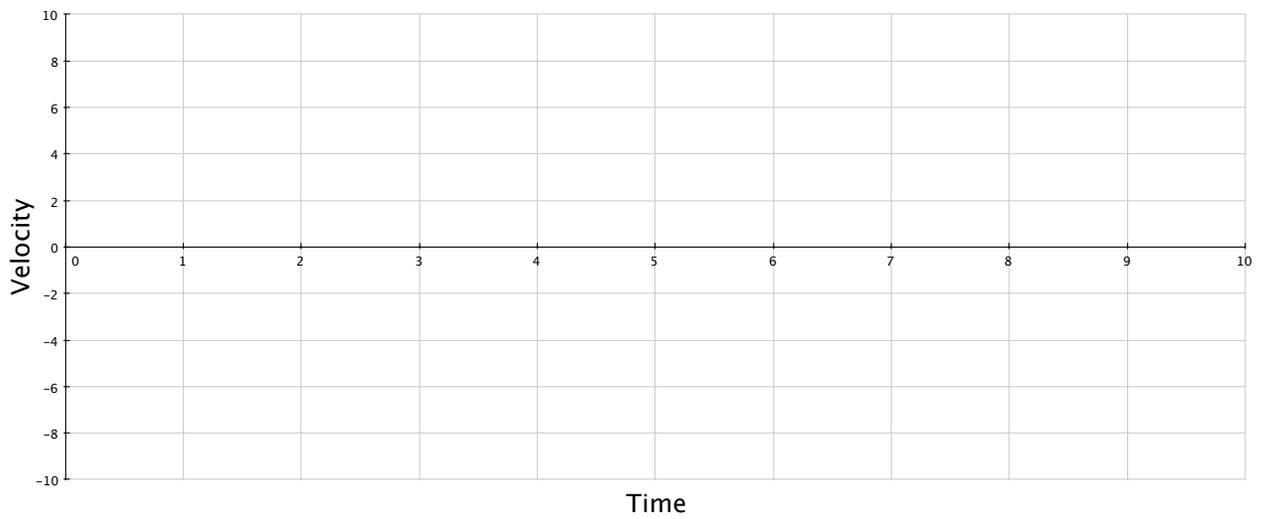
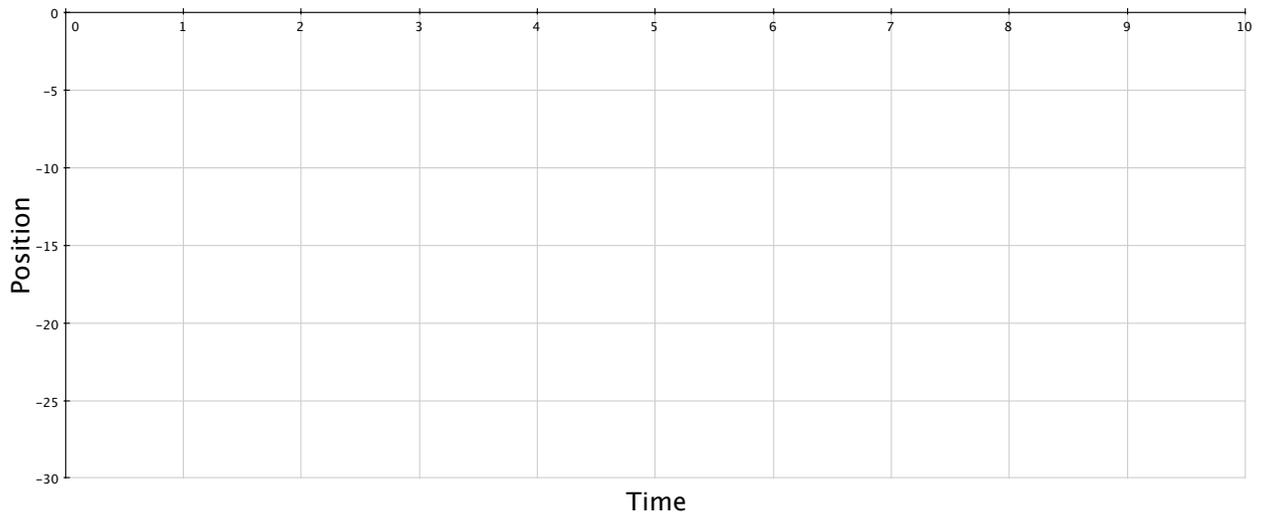
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