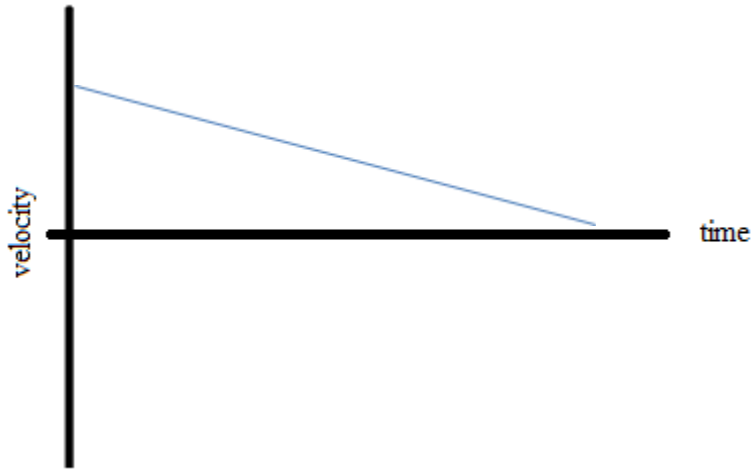
Velocity-time graph laboratory exercise

Name_____ Period_____

You are assigned to use the motion detector to reproduce the graph shown below:



1. Tell me whether the cart will move toward or away from the detector, and how you know from the graph.

2. Tell me whether the cart will speed up, slow down, or move with constant speed; and how you know this from the graph.

3.
   (a) Will you use a fan cart (with the fan on) or a motor cart to reproduce this graph?

   (b) Tell me exactly how you're going to use this cart and a motion detector to reproduce the graph. Include a sketch to show the location of the cart and detector; tell me whether you're going to give the cart a shove, or just let go; and tell me which way the fan is going to push.

``

4. Show this sheet to Mr. Skapetis. If your description is complete, then he will allow you to set up the cart and detector to try it out.

adapted from Jacob's Physics

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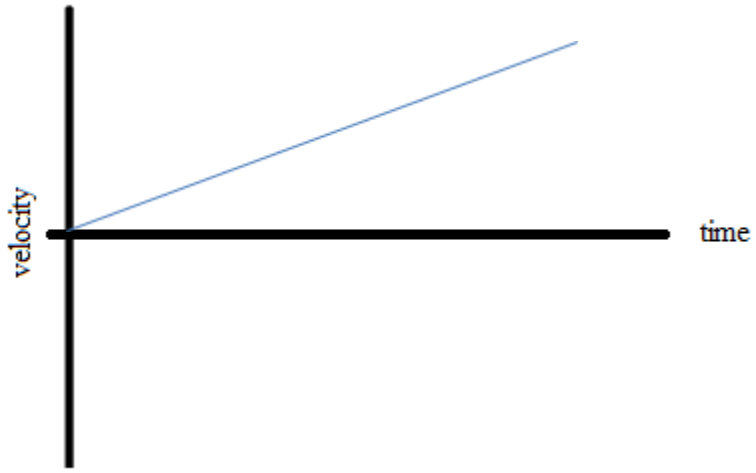

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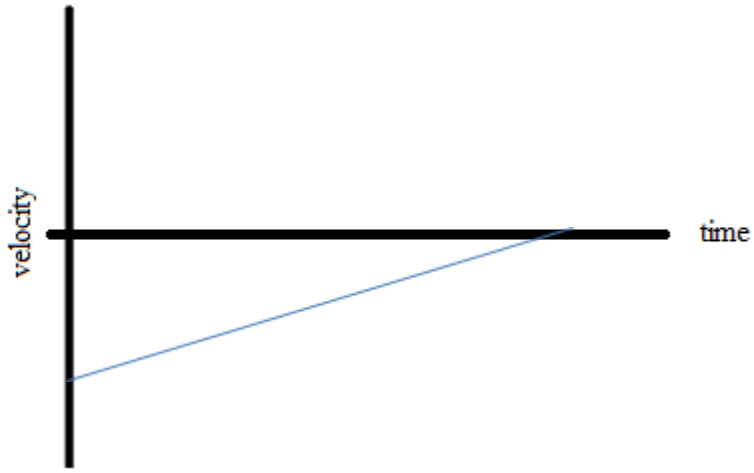

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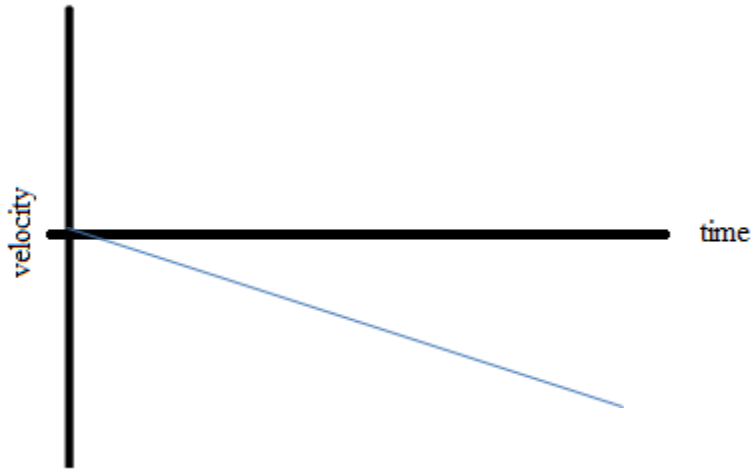

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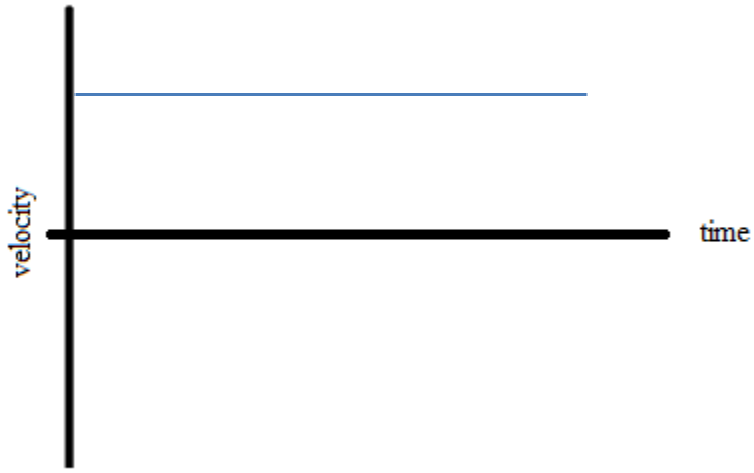

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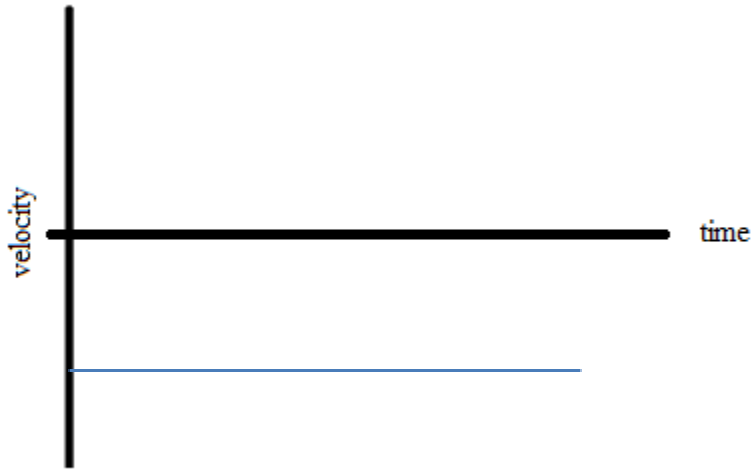

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