

2008 PreAP Linear Motion 3

A-Day: Due Tues., Sept 3 (Assigned: 8/29)

B-Day: Due Wed., Sept 4 (Assigned: 9/2)

1. A person measures two objects: one is 3.05 meters; the other measures 0.5600 mm. What is the total length of the two objects?

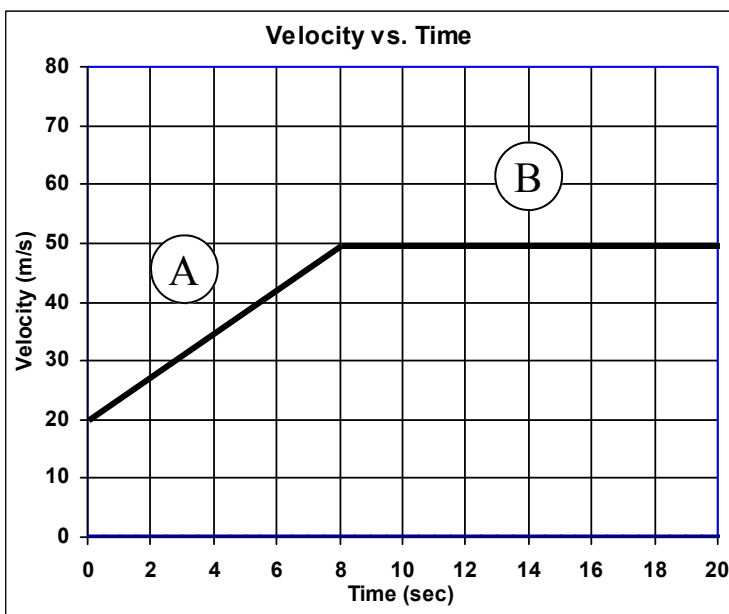
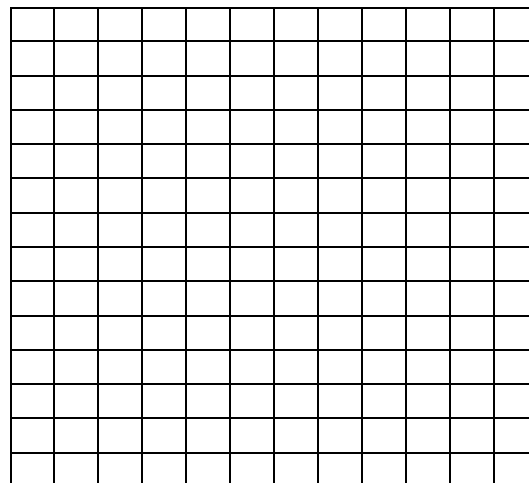
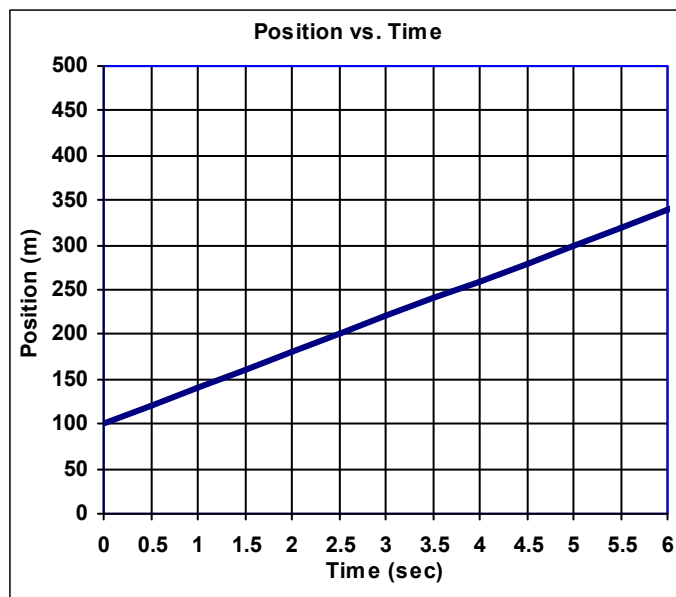
2. Use the graph at the right to answer the following.
 - A. What is the speed of the object on the graph?

 - B. What is the initial position of the object?

 - C. Write the linear equation for the graph.

 - D. What is the object's displacement for the first 11.5 seconds?

 - E. Graph a velocity vs. time graph for the motion on the grid at the right. Be sure to put a title, etc.



3. Use the graph at the left to answer the following.
 - A. For line segment A, determine the following variables: V_i , V_f , a , Δx , Δt .

 - B. Do the same for segment B.

 - C. Determine the initial position of the object during segment A.

4. From the book do this problems: p. 70: #12, 16, 18, 19, 33.