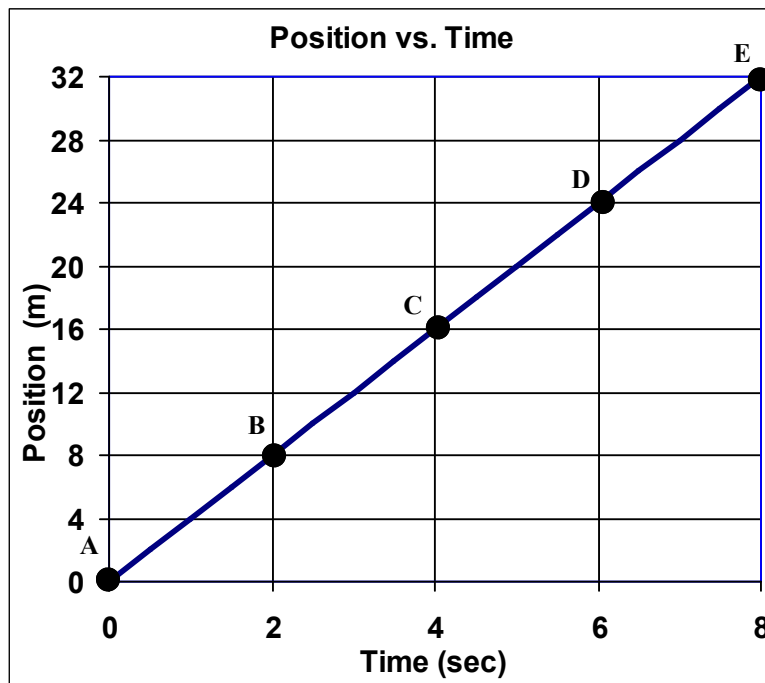
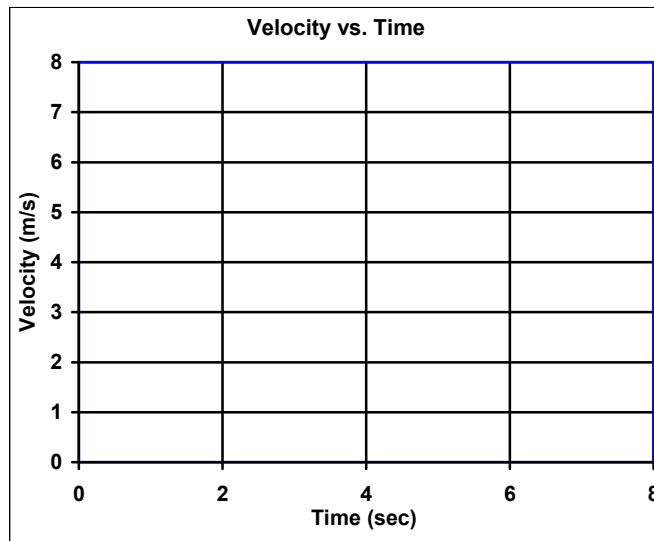


8. A. Calculate the slope between points A and B:
Write it on the graph between the two points.
(Please include units)
- B. Calculate the slope between points B and C:
Write the slope on the graph between the points.
- C. Calculate the slope between points C and D:
Write the slope on the graph between the points.
- D. Calculate the slope between points D and E:
Write the slope on the graph between the points.
- E. So, what do you know about the slope of the line on the graph?



So, you should see that the object is moving and that the slope you just found is the speed or velocity of the object.

- F. For each of the velocities (slopes) you found on the above graph put dots on the velocity graph at the right.
(Put dots at each 2 sec, 4 sec, 6 sec, etc).
- G. Connect the dots to make a line on the velocity graph.
- H. Notice that a constant sloped line on a position vs. time graph becomes what kind of line on a velocity vs. time graph?



9. Transfer the velocity graph to the acceleration vs. time graph.

10. For the velocity vs. time graph,
 A. Which is the dependent variable?
 B. Which is the independent variable?

Math help: $x^4x^6 = x^{10}$ and $(x^4)^6 = x^{24}$.

11. Simplify the following:

- A. $t^2t^6 =$
- B. $q^8q^4/q^{-3} =$

