

Name: \_\_\_\_\_

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**Chapter 2.2 Homework**  
**Conceptual Physics**

Parent Signature: \_\_\_\_\_

**Reviewing Concepts**

10. Explain how to calculate the slope of a line. (1)

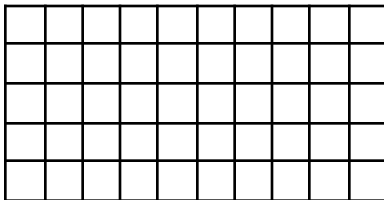
11. The slope of a position vs. time graph is equal to the object's \_\_\_\_\_. (1)

12. Sam rolls down his driveway on a skateboard while Beth keeps track of his position every second for 15 seconds. When they make a graph of the data, the position vs. time graph is a curve that gets steeper as time increases. What does this tell you about Sam's velocity? (1)

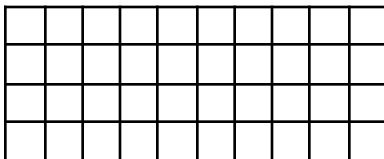
**Solving Problems**

8. Referring to the graph on page 49, rank the four points on the position vs. time graph in order from slowest to fastest. (1)

9. Draw the position vs. time graph for a person walking at a constant speed of 1 m/s for 10 s. On the same axes, draw the graph for a person running at a constant speed of 4 m/s. (1)



10. Draw the position vs. time graph for an object that is not moving. (1)



11. Why is the line in a position vs. time graph for an object in free fall a curve? (1)