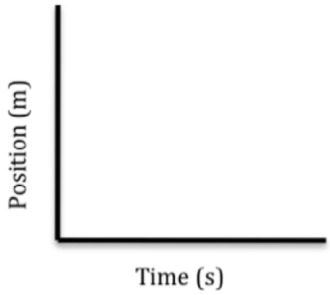
Name_____

Date_____**Pd**___

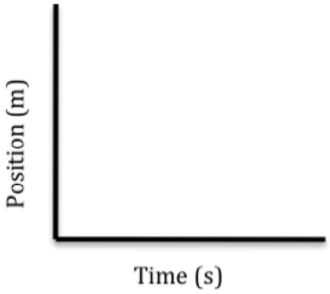
UNIT II: Worksheet 2

Sketch position vs. time and velocity vs. time graphs corresponding to the following descriptions of the motion of an object.

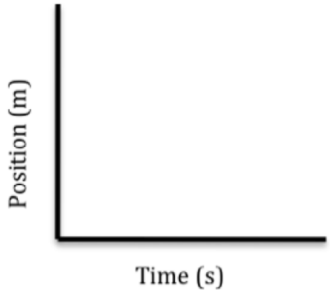
1. The object is moving away from the zero position at a constant (steady) speed.

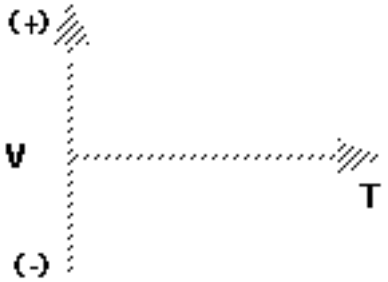


2. The object is standing still.

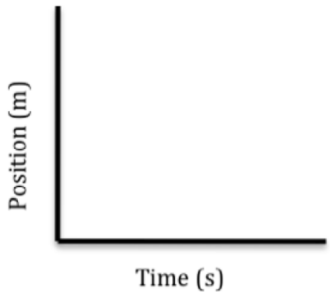


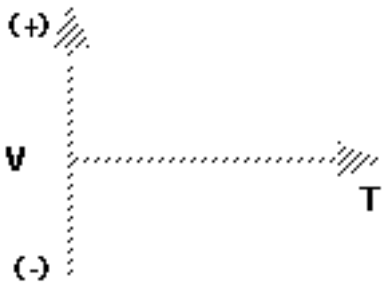
3. The object moves toward the zero position at a steady speed for 10s, then stands still for 10s.



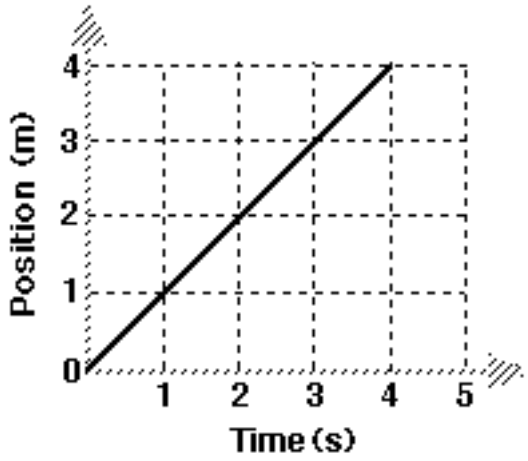


4. The object moves away from the zero position at a steady speed for 10s, reverses direction and moves back toward the zero position at the same speed.



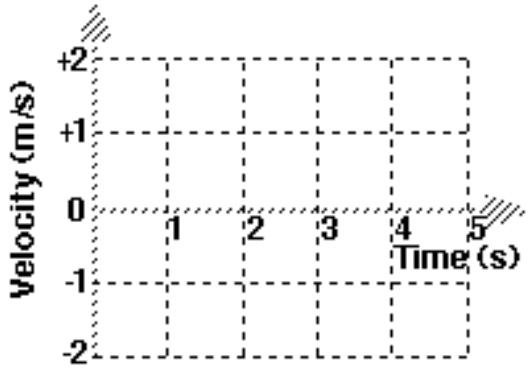


5.



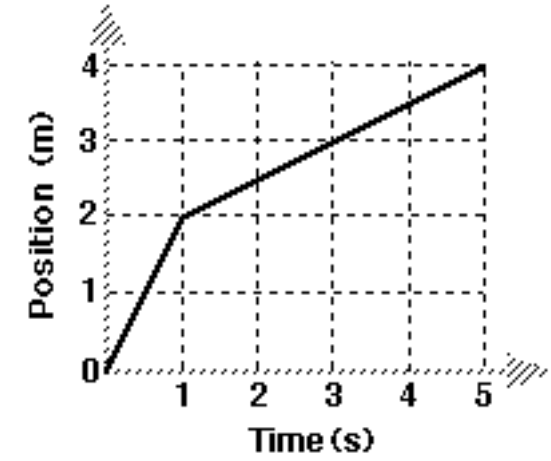
a. Show calculations for every section of the position vs. time graph shown at left.

b. Describe in words the motion of the object.



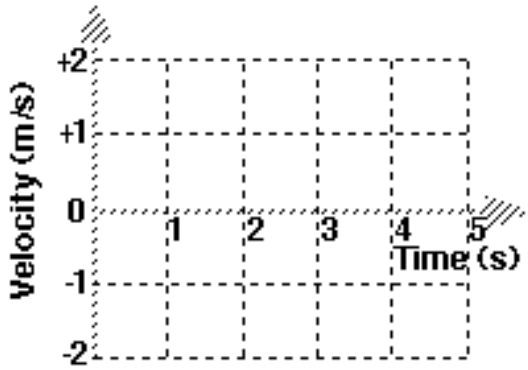
c. Draw the correct velocity time graph at the left.

6.



a. Show calculations for every section of the position vs. time graph shown at left.

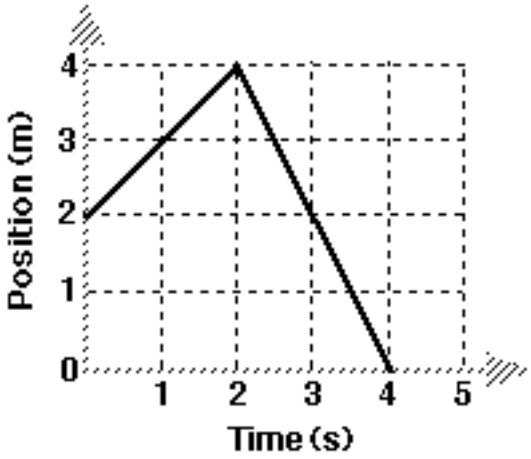
b. Describe in words the motion of the object.



c. Draw the correct velocity time graph at the left.

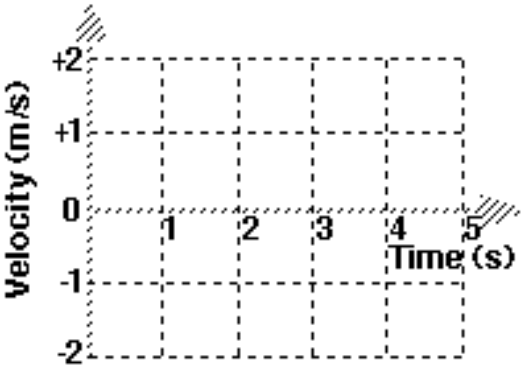
d. Use a dot to indicate where the object changes velocity.

7.



a. Show calculations for every section of the position vs. time graph shown at left.

b. Describe in words the motion of the object.



c. Draw the correct velocity time graph at the left.

d. Use a dot to indicate where the object changes velocity.