

Name: _____

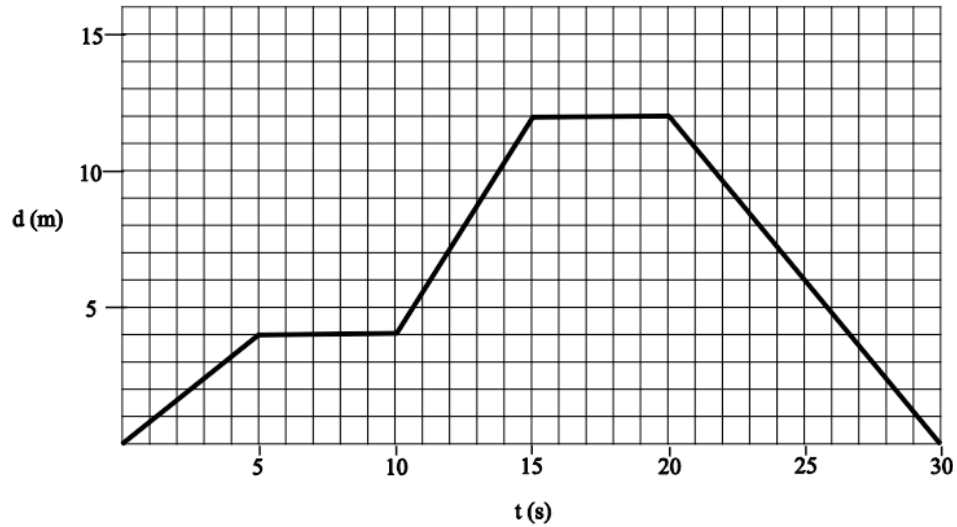
Class Period: _____

**Honors Physics: Kinematics in One Dimension
Graphical Analysis - Sketching HW**

Use the position vs. time graph below to answer questions A - D then sketch its corresponding velocity vs time graph.

A. How far does the object travel during the first five seconds (1 s to 5 s)?

B. How far does the object travel during the second five seconds (5 s to 10 s)?



C. Describe the velocity of the object during each segment as zero velocity, constant positive, constant negative, slowing velocity, or increasing velocity.

Part 1 -

Part 2 -

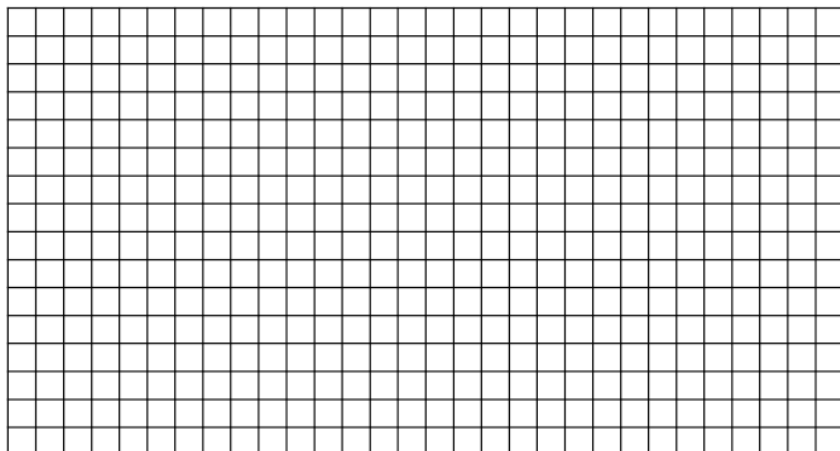
Part 3 -

Part 4 -

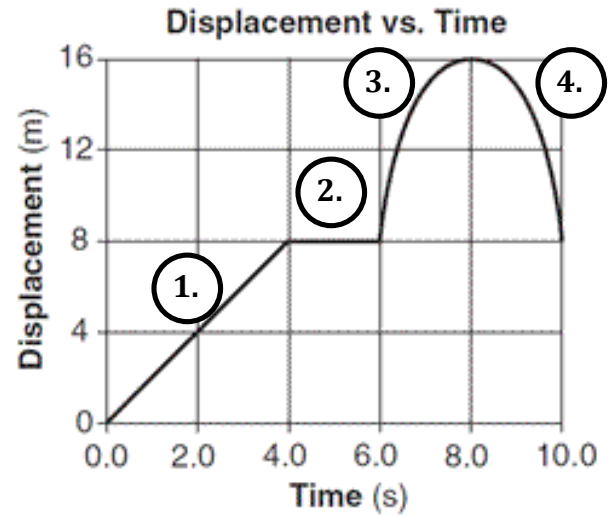
Part 5 -

D. Does the object ever accelerate in this scenario?

E. Sketch the velocity vs. time graph for this object on the graph given below.



Use Figure 2 for questions A - D



A. Use the space below to describe the position of the object during parts 1 - 4.

Part 1 -

Part 2 -

Part 3 -

Part 4 -

B. Describe the velocity of the object during each segment as zero velocity, constant positive, constant negative, slowing velocity, or increasing velocity.

Part 1 -

Part 2 -

Part 3 -

Part 4 -

C. Indicate the acceleration of any segments (positive, negative, or zero).

D. Using any calculations necessary, sketch the velocity vs. time and acceleration vs. time graphs in the graphs provided below. (I suggest doing all your calculations first before you sketch the graph.)

