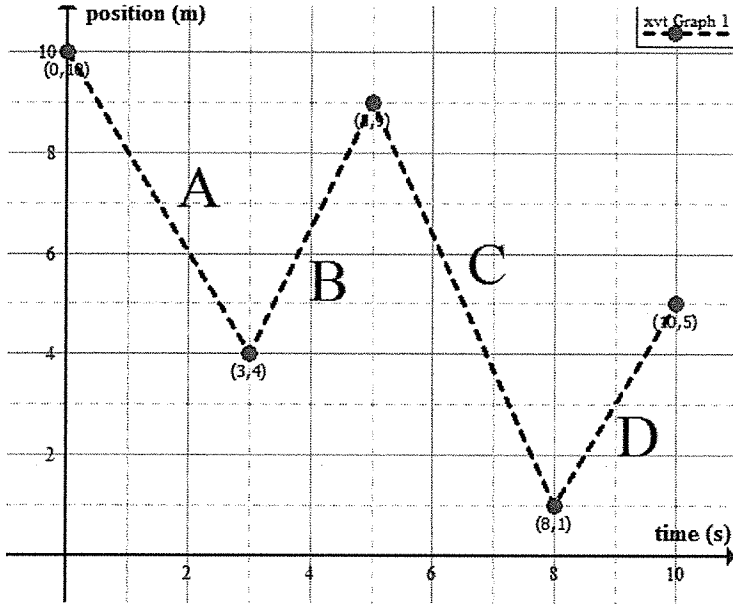


## Velocity and Acceleration

1. Given the following graph, describe the movement of the object. Be sure to use the terms position, velocity and acceleration. Include direction in your explanation.



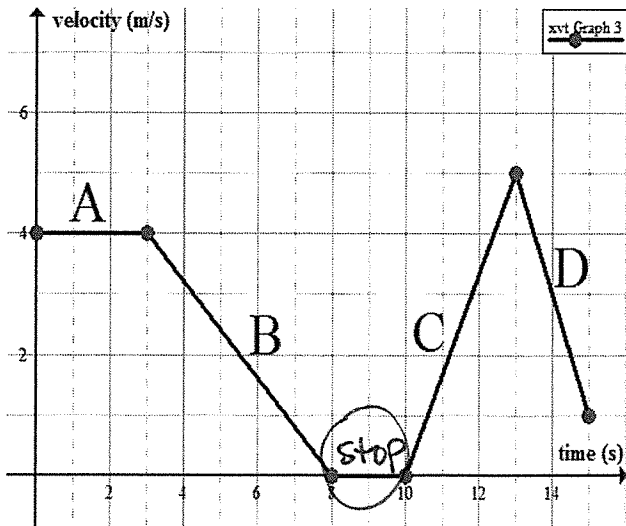
A - constant velocity  
in neg direction

B - constant speed  
velocity pos

C - constant speed  
neg

D - constant speed  
pos

2. Given the following graph, describe the movement of the object. Be sure to use the terms position, velocity and acceleration. Include direction in your explanation.



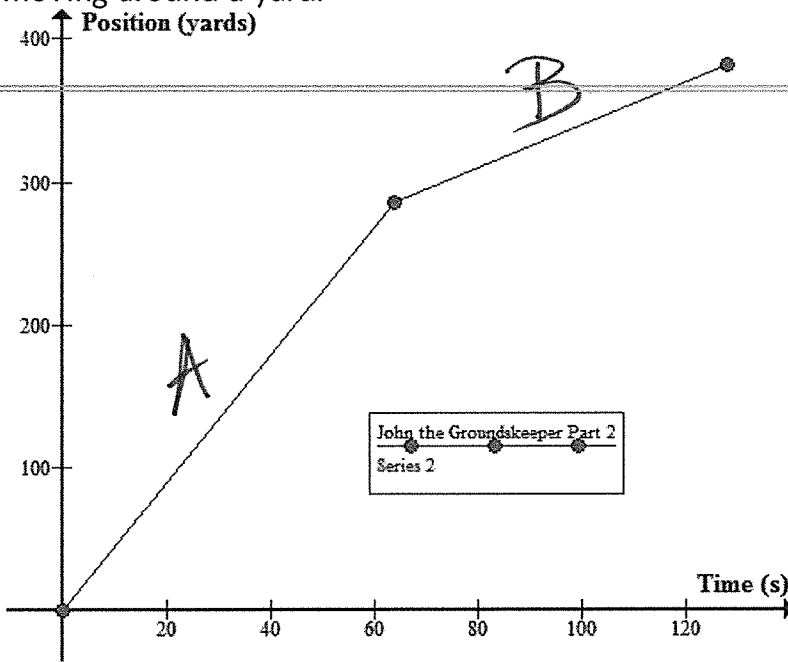
A - constant

B - decelerating  
neg

C - accelerating  
pos

D - decelerating  
neg

3. John is moving around a yard.



a) Where is John moving the fastest? How do you know?

*A because steeper slope*

b) Where is John moving the slowest? How do you know?

*B*      *||*

c) What is John's average velocity? (Hint: Use the formula and the graph.)

$$\frac{400}{120}$$

4. Create an acceleration time graph for the following graph.

