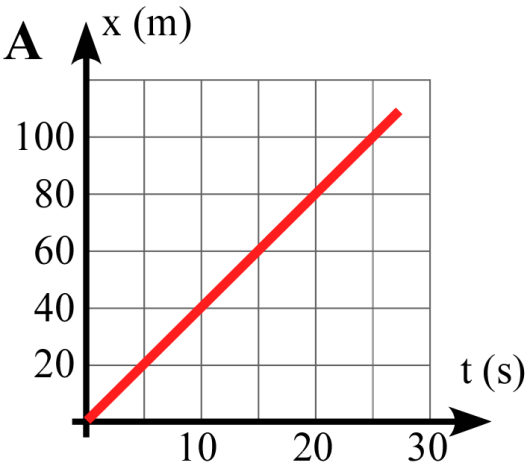
Calculating Slopes

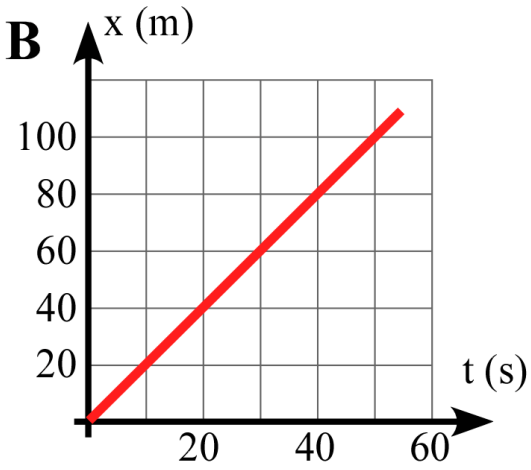
Name_____

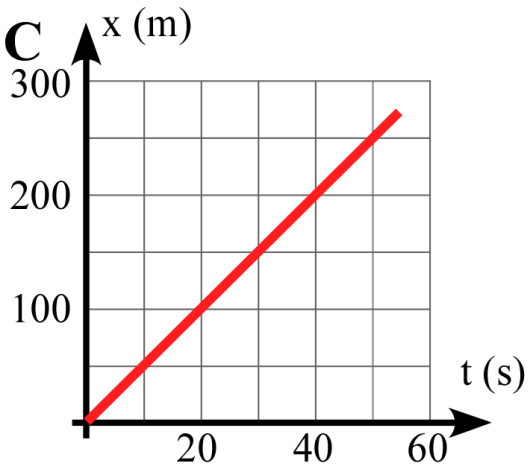
Date _____ Period ____

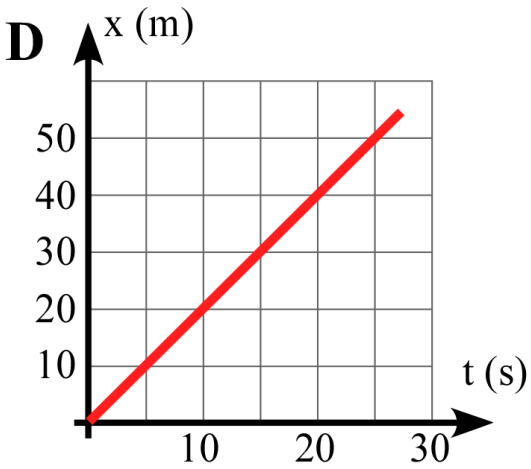
1. Look at the slopes of these Position (x) vs Time (t) graphs A, B, C & D. They all appear to have the same slope.

a. Select 2 points and calculate the velocity by finding the slope of each graph. Show your work next to each graph.









b. Why were the calculated velocities so different when the apparent slope on each of the graphs was the same?

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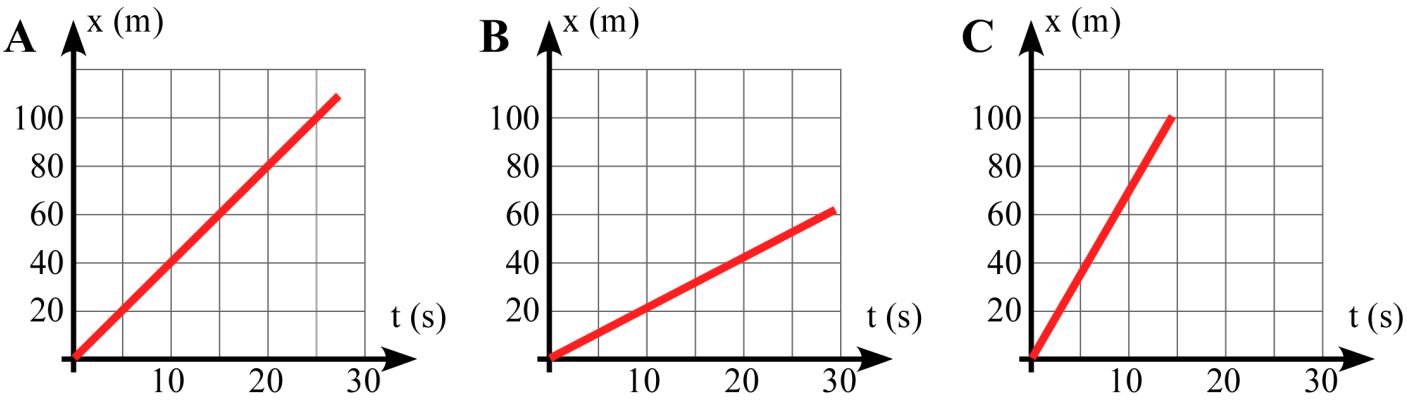
2. Look at the slopes of these 3 Position (x) vs Time (t) graphs A, B, & C.

a. Carefully look at each graph and try to identify which slope has the greatest Velocity. Rank the velocities from highest to lowest.



b. Now, select 2 points and calculate the velocity by finding the slope of each graph. Show your work on each graph.

c. What is the relationship of the angle of the slope of the line on the graph and the resulting velocity?

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