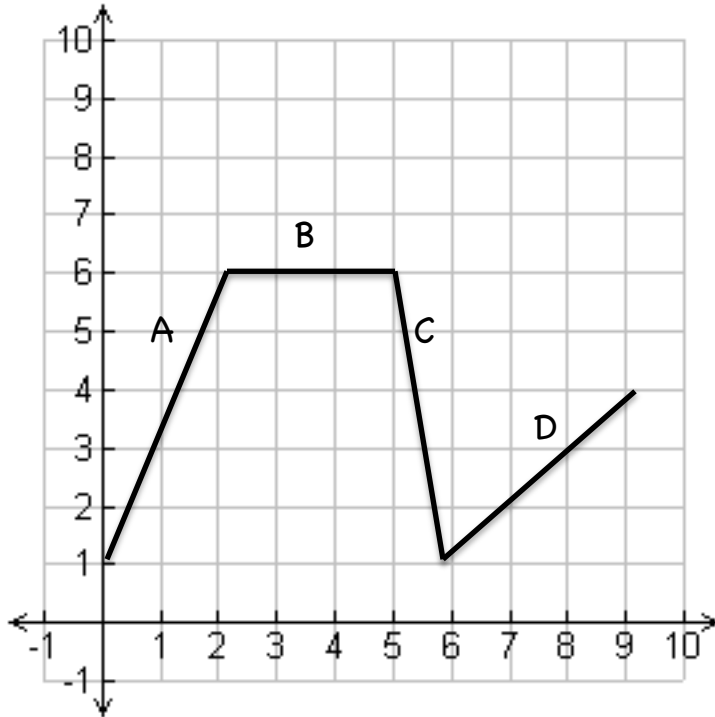


For problem 1 find the slope of the line at each part.

1.



Part A =

Part B =

Part C =

Part D =

For problem 2 use the slope formula to find the slope between the two points. Make sure to reduce the slope if possible. Then rank the 3 slopes from most steep to least steep.

2. a. $(8, -15)$ $(-3, 45)$

b. $(-8, -12)$ $(-5, -13)$

c. $(\frac{3}{4}, \frac{5}{12})$ $(\frac{1}{2}, \frac{7}{10})$

Rank the slopes from most steep to least steep:

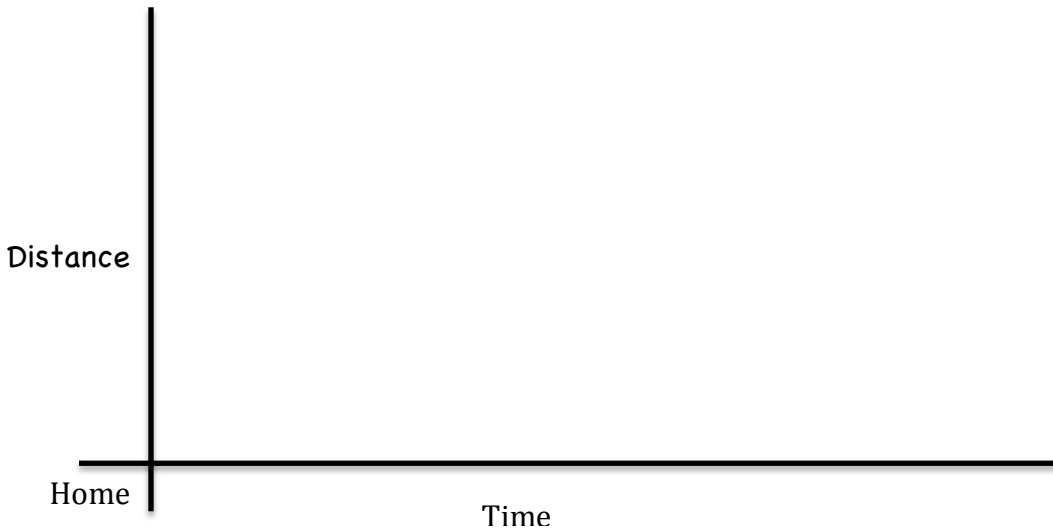
For problem 3 & 4, find the rate of change for the situation.

3. Joe's friends and him went to a pizza parlor and purchased 6 pizzas for \$33. How much did each pizza cost?

4. At Laurens catering service she charges a flat rate for each person plus a \$50 tip. For 12 people, she will charge you \$80, and for 18 people she will charge you \$95. Use the information provided. Hint: Use ordered pairs for (people, cost).

For problem 5 and 6, create a graph to represent the situation provided.

5. Rick needs to go to the park to meet some friends for basketball. He starts by walking. After a couple of minutes, he realizes he left his basketball at home so he turns around and walks back home. Once he grabs his basketball from home he jogs towards the park because he's running late. As he's jogging, he has to stop and wait for a train to pass on the tracks. He waits for a few minutes and continues to walk towards the park. A few minutes later, he walks through a friend's yard but gets chased by his dog, so he starts running towards the park. Draw a distance vs. time graph to model this story.



Place a STAR at the point where you are furthest from home

Place a DIAMOND on the steepest slope.

6. Kyle's son recently joined the Little Cubs Club and is doing a fundraiser selling popcorn. Kyle realized his son is making \$3.50 for every 2 boxes of popcorn he sells. Demonstrate this rate of growth using the tools provided. Plot at least 3 points and connect them with a line. Make sure your line extends past just the points. Also, label the x and y-axis with the correct title. Afterwards, calculate the slope. What do you notice?

