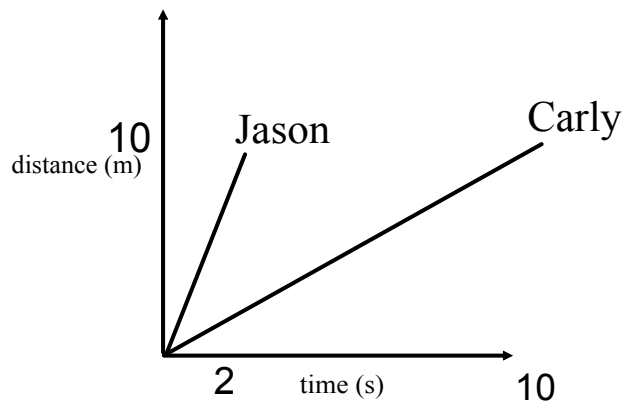# Monday Feb 20,2012

answers WS/textbook questions
calculating slope using two points
drawing a graph

Warm -Up

1. a. From looking at the graph who is travelling faster?
   b. Calculate Jason and Carly's speeds

distance (m)

10

Jason

Carly

2

time (s)

10

answers pg 365 #1,2,6

answers WS #1

Calculating Speed Using Two Points

Another way to calculate the slope is using two points on the graph and the following formula:

$$v = \frac{\Delta d}{\Delta t} = \frac{d_2 - d_1}{t_2 - t_1} = \frac{y_2 - y_1}{x_2 - x_1}$$

You would need to use this method for any lines that do not begin at the origin (0)
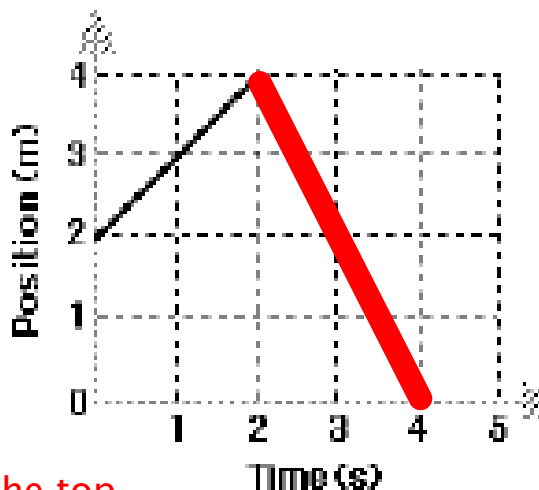
To calculate the speed of the red line:

1st locate your two points
(_____ , _____)   (_____ , _____)

2nd put your points into the equation

$$V = \frac{d_2 - d_1}{t_2 - t_1} = \frac{y_2 - y_1}{x_2 - x_1} =$$

3rd solve the equation by subtracting the top and then the bottom and then dividing

Complete the following questions
Graphing Worksheet #1,2

Attachments

average speed ex 1.notebook

average speed ex 2 answers.notebook

answers pg 365 #1,2,6.notebook

answers ws#1 interpreting graphs.notebook