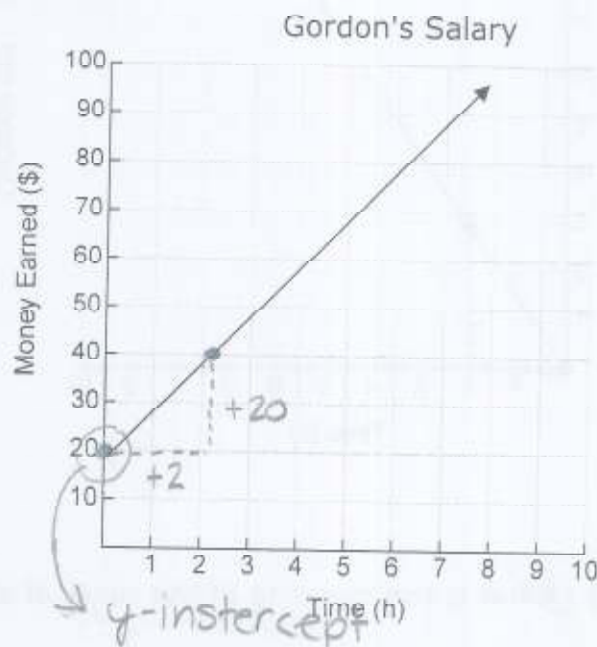
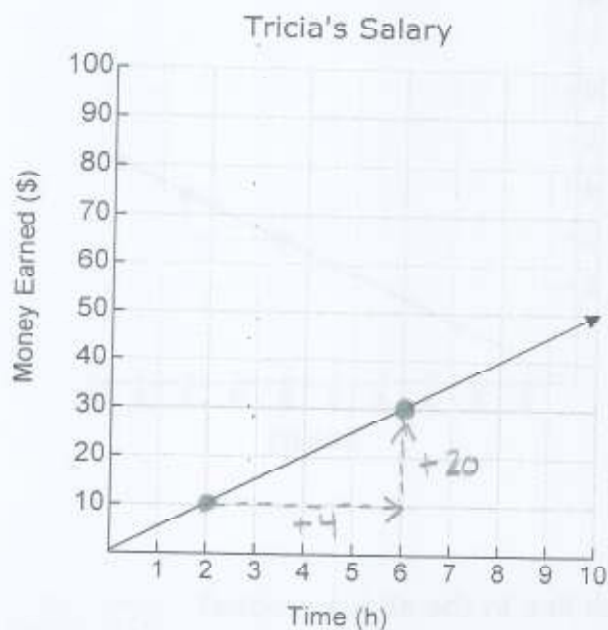


LESSON 7: SLOPE AS A RATE OF CHANGE**1) INTERPRETING SLOPE**

Example 1:



1. a) What is the slope of the line in the graph of Tricia's salary?

$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{\$20}{4h} = \$5/h$$

- b) What is the slope of the line in the graph of Gordon's salary?

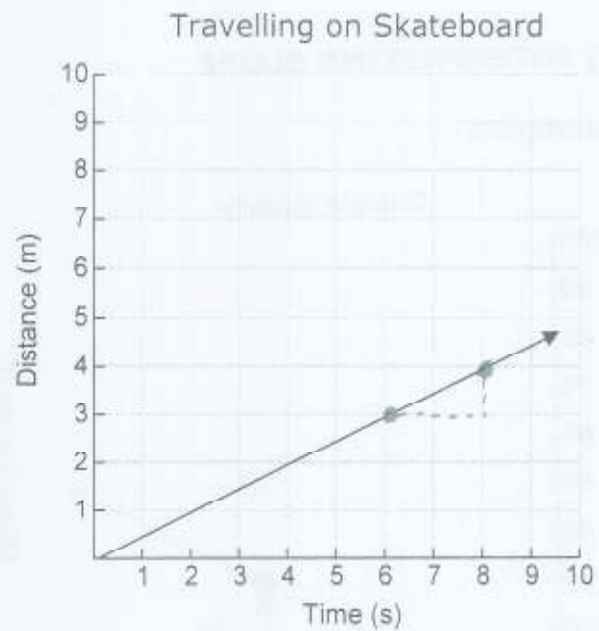
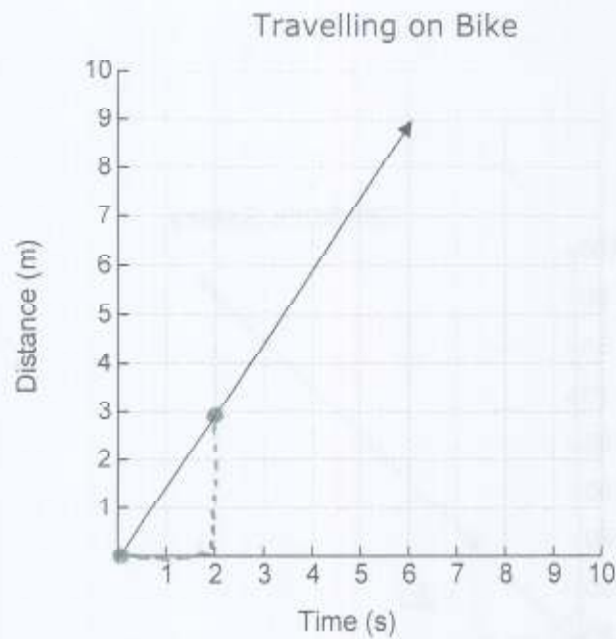
$$\text{slope} = \frac{\$20}{2h} = \$10/h$$

- c) What is the meaning of the slope of each line?

rate of pay (how much they make per hour)

- d) In this case, what does it mean to have steeper slope?

Example 2:



2. a) What is the meaning of the slope of each line in the above graphs?

speed

- b) By comparing the slopes of the two lines, who is moving faster the biker or the skateboarder?

Biker

- c) What is the speed of the biker? What is the speed of the skateboarder?

$$\text{Biker} \rightarrow \frac{3\text{m}}{2\text{s}} = 1.5\text{m/s}$$

$$\text{Skateboarder} \rightarrow \frac{1\text{m}}{2\text{s}} = 0.5\text{m/s}$$