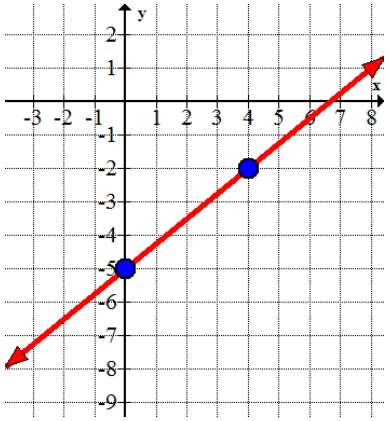
Name _____ Period A B C D E F Date _____

MODULE 2, TOPIC 1 TEST REVIEW

1. Use the following graph to answer the questions below:



a. Is the relationship proportional or non-proportional?

_____

b. How can you tell? _____

_____

_____.

2. When graphed, which equation will have the smallest rate of change? Explain your answer choice.

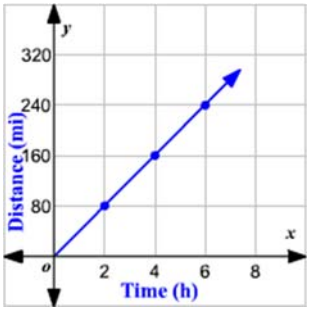
a. y= 10x b. y= 7x c. y= 0.8x d. y= 0.4x

I know this because _____

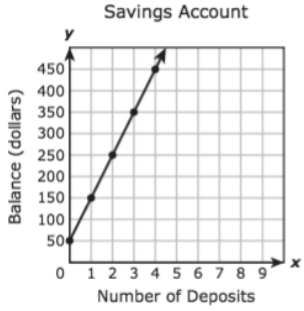
_____.

3. Find the rate of change shown in each graph.

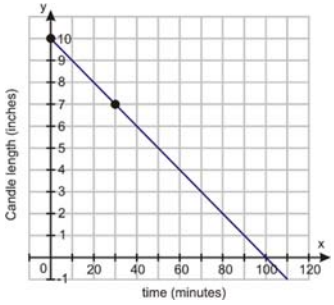
a.



b.

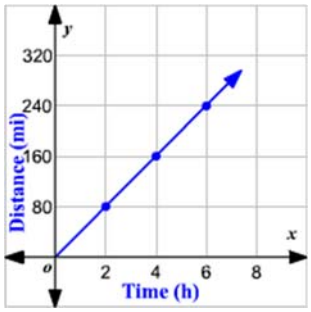


c.



Rate of Change: _____ Rate of Change: _____ Rate of Change: _____

4. What is the equation of the line shown below?



y= _____

5. Which of the following equations represents a proportional relationship? Explain your answer.

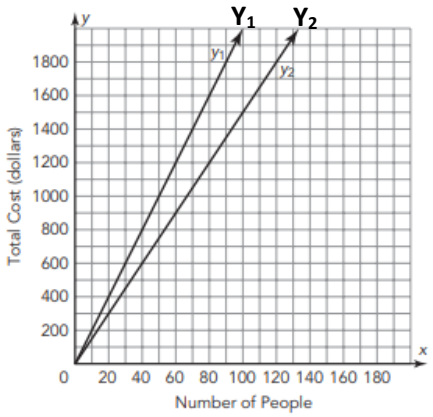
a. $y = 2x + 7$ b. $y = 4x$

c. $y = 4x + 2$ d. $y = x + 1$

How do you know? _____

_____.

6. Which line on the graph has the greatest rate of change? Explain your answer.

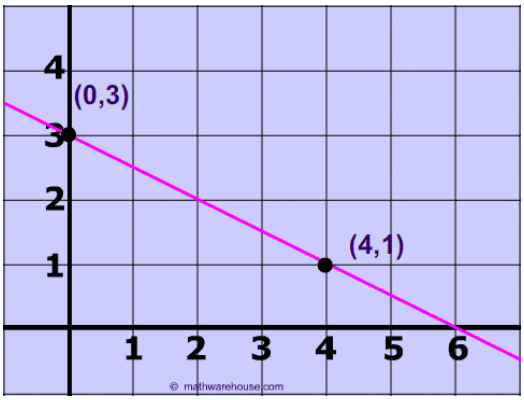


Y_1 or **Y_2**

I know this because _____

_____.

7. Using the graph shown, which represents the slope when using the idea of similar triangles? Select all that apply.



a. $\frac{1}{2}$

b. $\frac{2}{4}$

c. $-\frac{1}{2}$

d. $-\frac{2}{4}$

8. For the following questions, answer "T" for true and "F" for false.

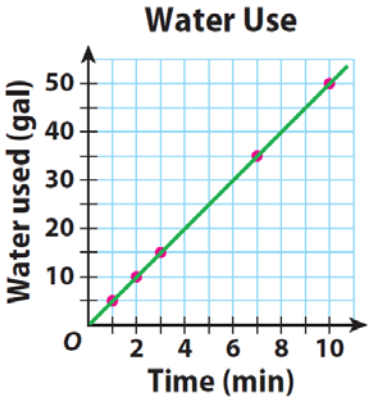
_____ a. A proportional relationship always goes through the origin (0,0).

_____ b. Linear relationships are always proportional.

_____ c. Proportional relationships are non-linear.

_____ d. Non-proportional relationships are always non-linear.

9. Which statement correctly describes the relationship shown in the graph?



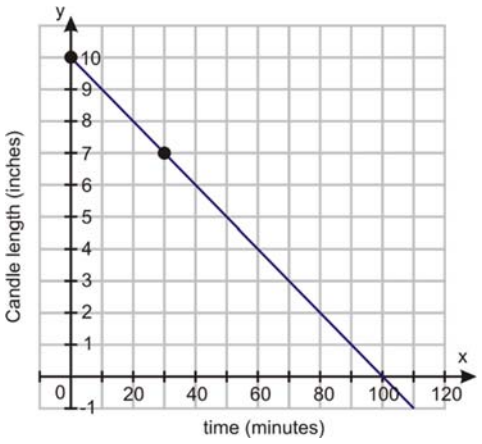
a. The relationship is linear and non-proportional.

b. The relationship is linear and proportional.

c. The relationship is non-linear and non-proportional.

d. The relationship is non-linear and proportional.

10. Use the graph below to answer the following questions:



a. Is the graph proportional or non-proportional? _____

b. How can you tell? _____

_____.

c. What is the equation of the line? _____

11. The line shown on the graph is represented by y = x.

a. Create another line that is translated **down** 1 unit from y = x.

b. What is the equation of the line from "a"?

_____

c. Create another line that is translated **up** 2 units from y = x.

d. What is the equation of the line from "c"?

_____