

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 | y=0.4x | has | the small | est slape |
| of 0.4 | Smallest | rate | of change | 2) |
| | | | | |

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



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



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



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



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



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:



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"?

