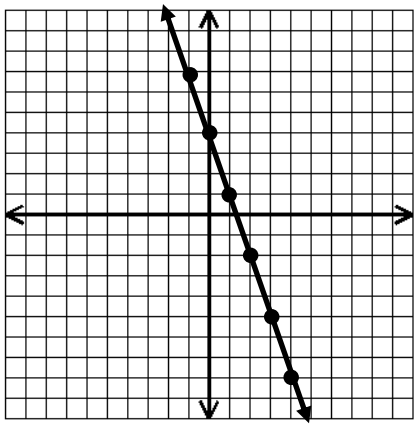
NAME_____**DATE**_____**PER.**_____

SLOPE AS A CONSTANT RATE OF CHANGE

Find the rate of change for each graph given. Circle if the graph increases or decreases.

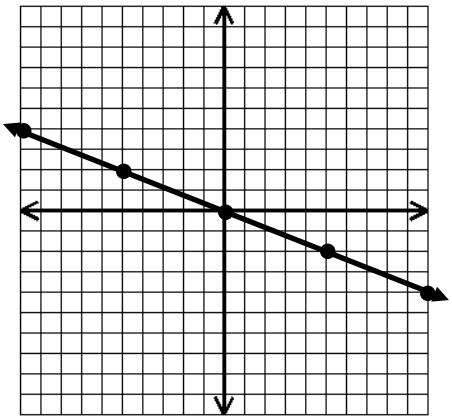
1. _____

Does the graph Increase or Decrease?



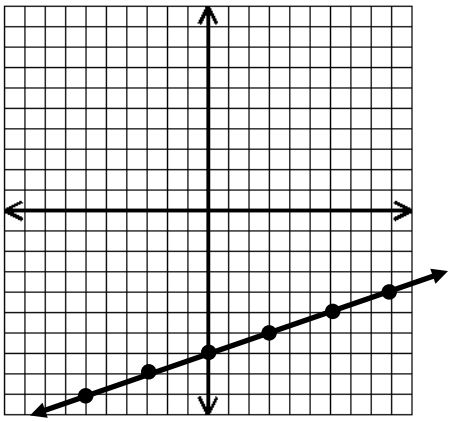
2. _____

Does the graph Increase or Decrease?



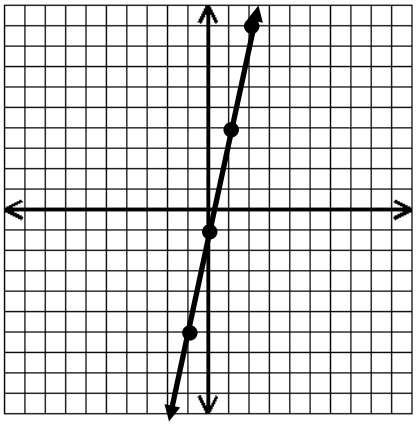
3. _____

Does the graph Increase or Decrease?



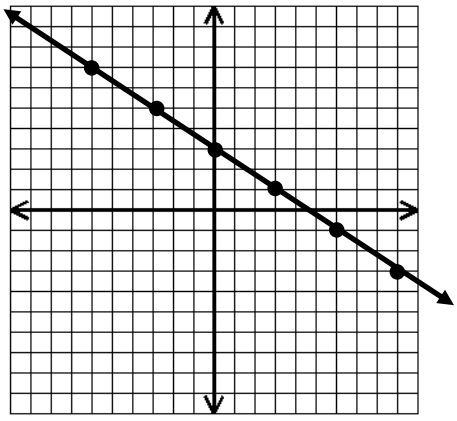
4. _____

Does the graph Increase or Decrease?

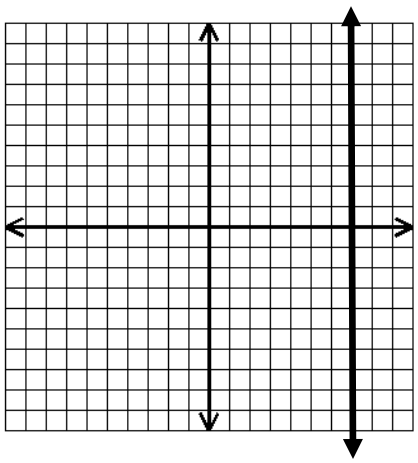


5. _____

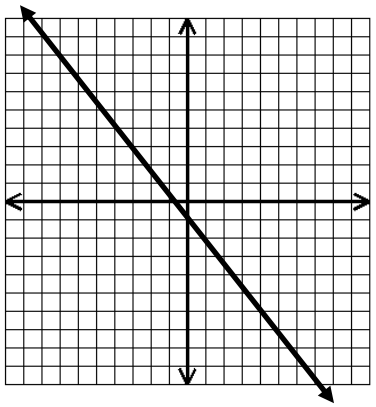
Does the graph Increase or Decrease?



6. _____



_____7. What is the slope of the graph shown?



A. $-\frac{5}{4}$

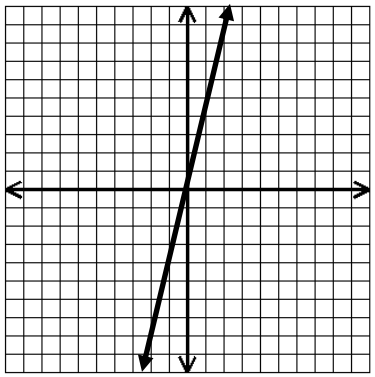
C. $-\frac{4}{5}$

B. $\frac{5}{4}$

D. $\frac{4}{5}$

Does the graph increase or decrease?

_____8. What is the slope of the graph shown?



A. -4 C. $-\frac{1}{4}$

B. 4 D. $\frac{1}{4}$

Does the graph increase or decrease?

Answer the following. Show all work.

9. Find the rate of change of y with respect to x between the points (-3, -4) and (5, -1).

10. Find the slope of the line containing the points (-5, 4) and (-5, -1).

11. Find x such that the slope between the points (2, 6) and (x, 3) is $-\frac{1}{2}$.

12. The line segment on the graph shows the altitude of a landing airplane from the time its wheels are lowered to the time it touches the ground.

Which of the following best describes the slope of the line segment?

A. The plane descends about 1 foot per second.

B. The plane descends about 8 feet per second.

C. The plane descends about 1 foot per 2 seconds.

D. The plane descends about 2 feet per second.