

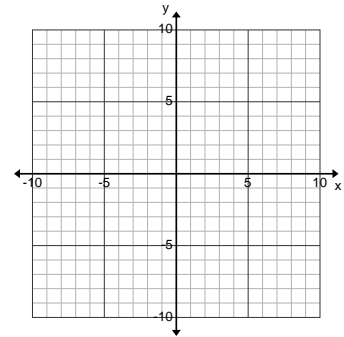


Finding Slope Worksheet

Name _____ Period _____ Date _____

1. The _____ of a non-vertical line is the number of units the line rises or falls for each unit of horizontal change from left to right.

2. Graph the points $(-1, 2)$ and $(3, 2)$ and find the slope of the line passing through these two points.



3. A line with a positive slope

- a. rises to the right
- b. rises to the left
- c. is horizontal
- d. is vertical

4. Define rate of change, and how it is related to the slope of a line?

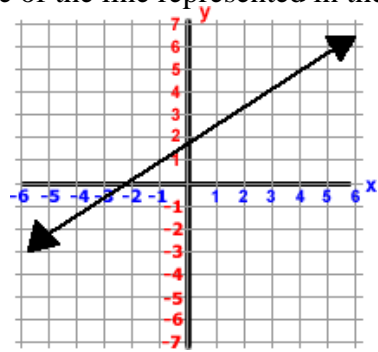
5. In 1980, there were 67 new productions on Broadway. In 1987, there were 31 new productions on Broadway. Find the average rate of change in the number of new productions. (Give the result in new productions per year.)

6. Given the equation $y = mx + b$, which variable represents the slope of the line?

7. Given the equation $y = -3x + 6$, what is the slope of the line?

8. Using the slope formula, find the slope of the line passing through $(4, -2)$ and $(6, -3)$.

9. Which of the following approximately represents the slope of the line represented in the graph:



- a. $-3/2$
- b. $-4/5$
- c. $2/3$
- d. 0

10. The slope of the line passing through the points (8, 0) and (0, 8) is

- a. positive
- b. negative
- c. zero
- d. undefined

11. When you use the formula $m = \frac{y_2 - y_1}{x_2 - x_1}$ to find the slope of a line passing through two points, does it matter which point you choose to use as (x_1, y_1) ? Give three different examples to support your answer.

12. Write an expression for the slope of a line passing through the points (0, 3) and (x, 8). What value of x would make the slope -5?

13. Find the slope of the line passing through the points (3, 4) and (3, -6).

14. To find the slope of a line, can you choose any two points on the line? Explain!!!