Name _____ Date _____ Class _____

LESSON 5-4

Practice A

The Slope Formula

Find the slope of the line that contains each pair of points.

1. (3, 1) and (9, 2)

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{2 - 1}{\square - \square} = \frac{1}{\square}$

2. (−2, 3) and (2, −1)

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{-1 - \square}{2 - \square} = \frac{\square}{\square} = \square$

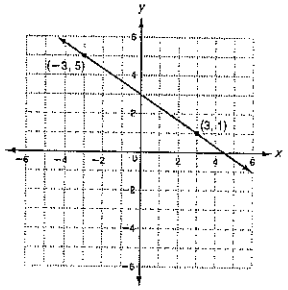
3. (4, 6) and (0, −2)

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{\square - \square}{\square - \square} = \frac{\square}{\square} = \square$

Each graph or table shows a linear relationship. Find the slope.

4.



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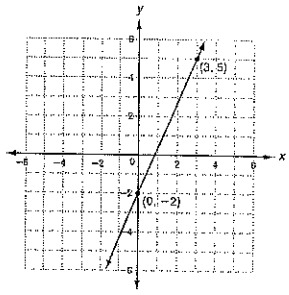
5.

x	y
0	82
3	76
6	70
9	64
12	58

_____

6.



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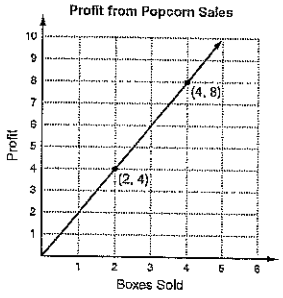
Find the slope of each line. Then tell what the slope represents.

7.



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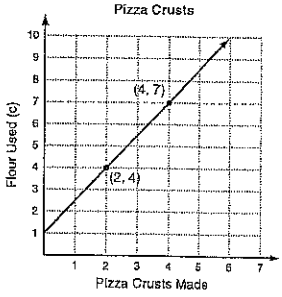
8.



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Complete the steps to find the slope of the line described by $2x + 5y = 10$.

9. a. Find the *x*-intercept.

Let $y = 0$

$2x + 5(\_\_\_\_) = -10$

$\_\_\_\_ = -10$

$\div \_\_\_\_ \div \_\_\_\_$

$x = \_\_\_\_$

b. Find the *y*-intercept.

Let $x = 0$

$2(\_\_\_\_) + 5y = -10$

$\_\_\_\_ = -10$

$\div \_\_\_\_ \div \_\_\_\_$

$y = \_\_\_\_$

c. The line contains $(\_\_\_\_, 0)$ and $(0, \_\_\_\_)$. Use the slope formula.

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{\square - 0}{0 - \square} = \frac{\square}{\square}$

Name _____ Date _____ Class _____

TEKS A.6.A

LESSON 5-4

Practice B

The Slope Formula

Find the slope of the line that contains each pair of points.

1. (2, 8) and (1, −3)

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{\square - \square}{\square - \square}$

$= \frac{\square}{\square} = \square$

2. (−4, 0) and (−6, −2)

$m = \frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{\square - \square}{\square - \square}$

$= \frac{\square}{\square} = \square$

3. (0, −2) and (4, −7)

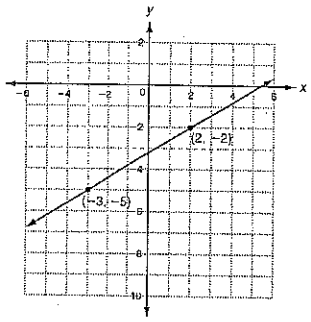
$m = \frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{\square - \square}{\square - \square}$

$= \frac{\square}{\square}$

Each graph or table shows a linear relationship. Find the slope.

4.



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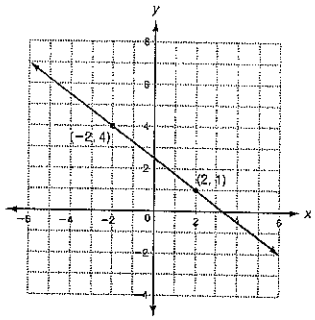
5.

x	y
1	3.75
2	5
3	6.25
4	7.50
5	8.75

_____

6.



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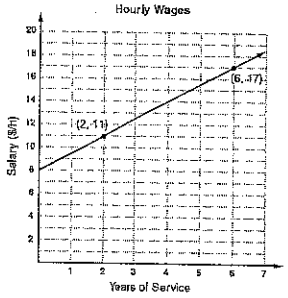
Find the slope of each line. Then tell what the slope represents.

7.



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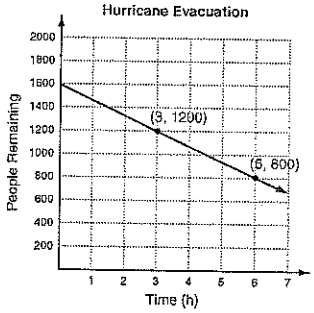
8.



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Find the slope of the line described by each equation.

9. $3x + 4y = 24$

_____

10. $8x = 48 + 3y$

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