

## Finding Slope: Ratio method

Find the slope of a line passing through  $(-2, -7)$  and  $(-5, -1)$ .

$$\Delta y = y_2 - y_1 = -1 + 7 = \mathbf{6}$$

$$\Delta x = x_2 - x_1 = -5 + 2 = \mathbf{-3}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \frac{6}{-3} = \mathbf{-2}$$

Find the slope of a line that passes through the given two points using ratio method.

1)  $(-3, -4)$  and  $(-1, -2)$

2)  $(-9, 5)$  and  $(-2, 3)$

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

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

Slope =  $\frac{\Delta y}{\Delta x} =$  \_\_\_\_\_

3)  $(7, 9)$  and  $(-8, 1)$

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

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

Slope =  $\frac{\Delta y}{\Delta x} =$  \_\_\_\_\_

5)  $(-5, -6)$  and  $(-1, 5)$

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

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

Slope =  $\frac{\Delta y}{\Delta x} =$  \_\_\_\_\_

Slope =  $\frac{\Delta y}{\Delta x} =$  \_\_\_\_\_

7)  $(-1, 8)$  and  $(-4, 5)$

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

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

Slope =  $\frac{\Delta y}{\Delta x} =$  \_\_\_\_\_

8)  $(9, 4)$  and  $(7, -1)$

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

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

Slope =  $\frac{\Delta y}{\Delta x} =$  \_\_\_\_\_

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