

Name : \_\_\_\_\_

## Slope: Two-Point Formula

Sheet 5

Example:

Find the slope of a line passing through the points  $(-5, 0)$  and  $(-1, -2)$ .

$$\begin{aligned}\text{Slope} = m &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{-2 - 0}{-1 - (-5)} = \frac{-2}{-1 + 5} = \frac{-2}{4} = -\frac{1}{2}\end{aligned}$$

Use two-point formula method to find the slope of a line passing through the given points.

- 1)  $(9, 1)$  and  $(7, -2)$  and  $(-2, -8)$

Slope = \_\_\_\_\_

- 3)  $(-4, -6)$  and  $(-1, 3)$

Slope = \_\_\_\_\_

- 5)  $(2, -5)$  and  $(9, -7)$

Slope = \_\_\_\_\_

Slope = \_\_\_\_\_

- 7)  $(-7, 3)$  and  $(5, 1)$

- 8)  $(-2, -9)$  and  $(6, 4)$

Slope = \_\_\_\_\_

Slope = \_\_\_\_\_

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