

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

- 1) $(9, 1)$ and $(7, -4)$ and $(-2, -8)$

Slope = _____

-4

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

Slope = _____

$-\frac{5}{3}$

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

Slope = **$\frac{2}{7}$**

Slope = **$\frac{8}{5}$**

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

Slope = **$-\frac{1}{6}$**

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

Slope = **$\frac{13}{8}$**

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