

Slope: Two-Point Formula

Example:

Find the slope of a line passing through the points $(-6, 1)$ and $(-4, -5)$.

$$\begin{aligned} \text{Slope} = m &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{-5 - 1}{-4 - (-6)} = \frac{-6}{-4 + 6} = \frac{-6}{2} = -3 \end{aligned}$$

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

1) $(-9, -6)$ and $(3, 1)$

Slope = _____

3) $(2, 3)$ and $(-8,$ $5, 6)$

Slope = _____

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

Slope = _____

Slope = _____

7) $(-9, 2)$ and $(1, 10)$ 8) $(-3, 10)$ and $(0, -2)$

Slope = _____

Slope = _____

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