

Slope: Two-Point Formula

Sheet 1

Example:

Find the slope of a line passing through the points (4, 8) and (3, -2).

$$\begin{aligned}\text{Slope} = m &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{-2 - 8}{3 - 4} = \frac{-10}{-1} = \mathbf{10}\end{aligned}$$

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

1) (-4, 2) and (5, 6)

Slope = _____

2) (5, -5) and (7, 3)

Slope = _____

3) (2, 1) and (3, -10)

Slope = _____

4) (3, 9) and (1, 8)

Slope = _____

5) (7, 1) and (-2, 3)

Slope = _____

6) (0, -2) and (-6, 4)

Slope = _____

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

Slope = _____

8) (9, 8) and (5, 1)

Slope = _____

Slope: Two-Point Formula

Sheet 1

Example:

Find the slope of a line passing through the points (4, 8) and (3, -2).

$$\begin{aligned}\text{Slope} = m &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{-2 - 8}{3 - 4} = \frac{-10}{-1} = \mathbf{10}\end{aligned}$$

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

1) (-4, 2) and (5, 6)

Slope = $\underline{\underline{\frac{4}{9}}}$

2) (5, -5) and (7, 3)

Slope = $\underline{\underline{4}}$

3) (2, 1) and (3, -10)

Slope = $\underline{\underline{-11}}$

4) (3, 9) and (1, 8)

Slope = $\underline{\underline{\frac{1}{2}}}$

5) (7, 1) and (-2, 3)

Slope = $\underline{\underline{-\frac{2}{9}}}$

6) (0, -2) and (-6, 4)

Slope = $\underline{\underline{-1}}$

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

Slope = $\underline{\underline{1}}$

8) (9, 8) and (5, 1)

Slope = $\underline{\underline{\frac{7}{4}}}$