

Slope: Two-Point Formula

Example:

Find the slope of a line passing through the points (6, 3) and (9, 1).

$$\begin{aligned} \text{Slope} = m &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{1 - 3}{9 - 6} = -\frac{2}{3} \end{aligned}$$

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

1) (1, 4) and (3, 4), (4, -7)

Slope = _____

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

Slope = _____

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

Slope = _____

Slope = _____

7) (6, -7) and (5, 9)

8) (1, -8) and (6, -2)

Slope = _____

Slope = _____

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Find the slope of a line passing through the points (6, 3) and (9, 1).

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

1) (1, 4) and (3, 4), (4, -7)

Slope = -6

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

Slope = -\frac{12}{5}

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

Slope = \frac{3}{2} Slope = 3

7) (6, -7) and (5, 9) 8) (1, -8) and (6, -2)

Slope = -16 Slope = \frac{6}{5}

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