

**Slope: Two-Point Formula**

Example:

Find the slope of a line passing through the points (2, 1) and (6, 4).

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

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

1) (5, -2) and (4, -7)      (-7, 6)

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

3) (-3, 9) and (-4, 9)      (-4, -1)

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

5) (6, 8) and (3, 8)      (9, -5)

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

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

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

8) (-4, 6) and (5, 7)

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

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

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

1) (5, -2) and (4, -7)      (-7, 6)

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

$-\frac{9}{16}$

3) (-3, 9) and (-4, 9)      (-4, -1)

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

$\frac{7}{2}$

5) (6, 8) and (3, 8)      (9, -5)

Slope =  $\frac{1}{3}$

Slope =  $-\frac{7}{10}$

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

8) (-4, 6) and (5, 7)

Slope =  $\frac{5}{9}$

Slope =  $\frac{1}{9}$

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