Slope: Two-point Formula

Example : Find the slope of a line passing through points (−3, −8) and (1, 4).

$$\text{Slope} = m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{4 + 8}{1 + 3} = \mathbf{3}$$

Find the slope of each line passing through the given points by using two-point formula method.

1) (−2, −7) and (−3, −8)

Slope =

2) (0, 1) and (9, 0)

Slope =

3) (4, −4) and (−5, 2)

Slope =

4) (−6, 3) and (1, −1)

Slope =

5) (−7, 6) and (3, −4)

Slope =

6) (−2, −8) and (−9, −8)

Slope =

Slope: Two-point Formula

Answer key

Example : Find the slope of a line passing through points (–3, –8) and (1, 4).

$$\text{Slope} = m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{4 + 8}{1 + 3} = \textbf{3}$$

Find the slope of each line passing through the given points by using two-point formula method.

1) (–2, –7) and (–3, –8)

Slope = $\boxed{1}$

2) (0, 1) and (9, 0)

Slope = $\boxed{-\dfrac{1}{9}}$

3) (4, –4) and (–5, 2)

Slope = $\boxed{-\dfrac{2}{3}}$

4) (–6, 3) and (1, –1)

Slope = $\boxed{-\dfrac{4}{7}}$

5) (–7, 6) and (3, –4)

Slope = $\boxed{-1}$

6) (–2, –8) and (–9, –8)

Slope = $\boxed{0}$