Slope: Two-point Formula

Example : Find the slope of a line passing through the points (0, 5) and (2, –6).

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

$$= \frac{-6 - 5}{2 - 0} = -\frac{11}{2}$$

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

1) (3, 3) and (4, 5)

Slope =

2) (–1, 4) and (2, –8)

Slope =

3) (–6, –2) and (–7, –1)

Slope =

4) (5, –3) and (–4, 9)

Slope =

5) (3, 1) and (0, 0)

Slope =

6) (-3, –4) and (-1, 4)

Slope =

Slope: Two-point Formula

Answer key

Example : Find the slope of a line passing through the points (0, 5) and (2, –6).

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

$$= \frac{-6 - 5}{2 - 0} = -\frac{11}{2}$$

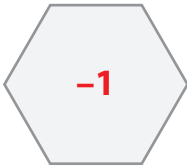Find the slope of each line passing through the given points by using two-point formula method.

1)   (3, 3) and (4, 5)

Slope =   **2**

2)   (–1, 4) and (2, –8)

Slope =   **–4**

3)   (–6, –2) and (–7, –1)

Slope =   **–1**

4)   (5, –3) and (–4, 9)

Slope = $-\dfrac{4}{3}$

5)   (3, 1) and (0, 0)

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

6)   (-3, –4) and (-1, 4)

Slope =   **4**