Finding Slope: Ratio method

Find the slope of a line passing through (−2, −1) and (3, 9).

$$\triangle y = y_2 - y_1 = 9 + 1 = \mathbf{10}$$

$$\triangle x = x_2 - x_1 = 3 + 2 = \mathbf{5}$$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \frac{10}{5} = \mathbf{2}$$

Find the slope of a line that passes through the given two points using ratio method.

1) (−6, −7) and (−2, −3)

$$\triangle y = $$

$$\triangle x = $$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = $$

2) (5, −4) and (9, 1)

$$= \rule{2cm}{0.4pt}$$

$$= \rule{2cm}{0.4pt}$$

$$= \rule{2cm}{0.4pt}$$

3) (4, 9) and (10,

$$\triangle y = $$

$$\triangle x = $$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = $$

, 0)

$$= \rule{2cm}{0.4pt}$$

$$= \rule{2cm}{0.4pt}$$

$$= \rule{2cm}{0.4pt}$$

5) (5, 8) and (2,

$$\triangle y = $$

$$\triangle x = $$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \rule{2cm}{0.4pt}$$

3)

$$= \rule{2cm}{0.4pt}$$

$$= \rule{2cm}{0.4pt}$$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \rule{2cm}{0.4pt}$$

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7) (−1, 3) and (−7, 8)

$$\triangle y = \rule{2cm}{0.4pt}$$

$$\triangle x = \rule{2cm}{0.4pt}$$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \rule{2cm}{0.4pt}$$

8) (−6, 2) and (4, 11)

$$\triangle y = \rule{2cm}{0.4pt}$$

$$\triangle x = \rule{2cm}{0.4pt}$$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \rule{2cm}{0.4pt}$$