Name : _____

Finding Slope: Ratio method

Find the slope of a line passing through (2, −5) and (−1, 0).

$$\triangle y \ = \ y_2 - y_1 \ = \ 0 + 5 \ = \ \mathbf{5}$$

$$\triangle x \ = \ x_2 - x_1 \ = \ -1 - 2 \ = \ \mathbf{-3}$$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \frac{5}{-3} = -\frac{\mathbf{5}}{\mathbf{3}}$$

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

1) (9, 2) and (−5, −8)

$$\triangle y \ = $$

$$\triangle x \ = $$

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

2) (6, −1) and (7, 3)

$$= \ \underline{\hspace{2cm}}$$

$$= \ \underline{\hspace{2cm}}$$

$$= \ \underline{\hspace{2cm}}$$

3) (−3, 1) and (−7

$$\triangle y \ = $$

$$\triangle x \ = $$

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

6, −2)

$$= \ \underline{\hspace{2cm}}$$

$$= \ \underline{\hspace{2cm}}$$

$$= \ \underline{\hspace{2cm}}$$

5) (8, 4) and (−9,

$$\triangle y \ = $$

$$\triangle x \ = $$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \ \underline{\hspace{2cm}}$$

3, 6)

$$= \ \underline{\hspace{2cm}}$$

$$= \ \underline{\hspace{2cm}}$$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \ \underline{\hspace{2cm}}$$

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7) (−3, 5) and (−2, −6)

$$\triangle y \ = \ \underline{\hspace{2cm}}$$

$$\triangle x \ = \ \underline{\hspace{2cm}}$$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \ \underline{\hspace{2cm}}$$

8) (−1, 0) and (−8, 1)

$$\triangle y \ = \ \underline{\hspace{2cm}}$$

$$\triangle x \ = \ \underline{\hspace{2cm}}$$

$$\text{Slope} = \frac{\triangle y}{\triangle x} = \ \underline{\hspace{2cm}}$$