

Finding Slope: Ratio method

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

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

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

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

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

1) $(-6, -7)$ and $(-2, -3)$

2) $(5, -4)$ and $(9, 1)$

$\Delta y =$ _____

$\Delta x =$ _____

$\text{Slope} = \frac{\Delta y}{\Delta x} =$ _____

3) $(4, 9)$ and $(10, 0)$

$\Delta y =$ _____

$\Delta x =$ _____

$\text{Slope} = \frac{\Delta y}{\Delta x} =$ _____

5) $(5, 8)$ and $(2, -3)$

$\Delta y =$ _____

$\Delta x =$ _____

$\text{Slope} = \frac{\Delta y}{\Delta x} =$ _____

$\text{Slope} = \frac{\Delta y}{\Delta x} =$ _____

7) $(-1, 3)$ and $(-7, 8)$

$\Delta y =$ _____

$\Delta x =$ _____

$\text{Slope} = \frac{\Delta y}{\Delta x} =$ _____

8) $(-6, 2)$ and $(4, 11)$

$\Delta y =$ _____

$\Delta x =$ _____

$\text{Slope} = \frac{\Delta y}{\Delta x} =$ _____

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

1) $(-6, -7)$ and $(-2, -3)$

2) $(5, -4)$ and $(9, 1)$

$$\Delta y = \underline{\mathbf{5}}$$

$$\Delta x = \underline{\mathbf{4}}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\mathbf{\frac{5}{4}}}$$

3) $(4, 9)$ and $(10, 0)$

$$\Delta y = \underline{\mathbf{-3}}$$

$$\Delta x = \underline{\mathbf{8}}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\mathbf{-\frac{3}{8}}}$$

5) $(5, 8)$ and $(2, -3)$

$$\Delta y = \underline{\mathbf{0}}$$

$$\Delta x = \underline{\mathbf{-2}}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\mathbf{4}} \qquad \text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\mathbf{0}}$$

7) $(-1, 3)$ and $(-7, 8)$

$$\Delta y = \underline{\mathbf{5}}$$

$$\Delta x = \underline{\mathbf{-6}}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\mathbf{-\frac{5}{6}}}$$

8) $(-6, 2)$ and $(4, 11)$

$$\Delta y = \underline{\mathbf{9}}$$

$$\Delta x = \underline{\mathbf{10}}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\mathbf{\frac{9}{10}}}$$

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