

Finding Slope: Ratio method

Find the slope of a line passing through $(-2, -7)$ and $(-5, -1)$.

$$\Delta y = y_2 - y_1 = -1 + 7 = \mathbf{6}$$

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

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \frac{6}{-3} = \mathbf{-2}$$

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

1) $(-3, -4)$ and $(-1, -2)$

2) $(-9, 5)$ and $(-2, 3)$

$\Delta y =$ _____

$\Delta x =$ _____

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

3) $(7, 9)$ and $(-8, 7)$

$\Delta y =$ _____

$\Delta x =$ _____

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

5) $(-5, -6)$ and $(-1, 5)$

$\Delta y =$ _____

$\Delta x =$ _____

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

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

7) $(-1, 8)$ and $(-4, 5)$

$\Delta y =$ _____

$\Delta x =$ _____

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

8) $(9, 4)$ and $(7, -1)$

$\Delta y =$ _____

$\Delta x =$ _____

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) $(-3, -4)$ and $(-1, -2)$

2) $(-9, 5)$ and $(-2, 3)$

$$\Delta y = \underline{\quad -2 \quad}$$

$$\Delta x = \underline{\quad 7 \quad}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad -\frac{2}{7} \quad}$$

3) $(7, 9)$ and $(-8, 7)$

$$\Delta y = \underline{\quad 6 \quad}$$

$$\Delta x = \underline{\quad -3 \quad}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad -2 \quad}$$

5) $(-5, -6)$ and $(-2, 5)$

$$\Delta y = \underline{\quad 7 \quad}$$

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

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad 4 \quad} \qquad \text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad -\frac{7}{2} \quad}$$

7) $(-1, 8)$ and $(-4, 5)$

8) $(9, 4)$ and $(7, -1)$

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

$$\Delta y = \underline{\quad -5 \quad}$$

$$\Delta x = \underline{\quad -3 \quad}$$

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

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad 1 \quad}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad \frac{5}{2} \quad}$$

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