

Finding Slope: Ratio method

Find the slope of a line passing through $(-1, -8)$ and $(-6, -4)$.

$$\Delta y = y_2 - y_1 = -4 + 8 = 4$$

$$\Delta x = x_2 - x_1 = -6 + 1 = -5$$

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

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

1) $(1, -7)$ and $(2, -4)$

2) $(9, -3)$ and $(3, -7)$

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

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

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

3) $(3, 5)$ and $(-6, 9)$

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

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

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

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

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

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

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

7) $(0, -3)$ and $(-5, 2)$

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

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

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

8) $(6, -1)$ and $(8, 4)$

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

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

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

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

1) $(1, -7)$ and $(2, -4)$

2) $(9, -3)$ and $(3, -7)$

$$\Delta y = \underline{\quad -4 \quad}$$

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

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad \frac{2}{3} \quad}$$

3) $(3, 5)$ and $(-6, 5)$

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

$$\Delta x = \underline{\quad -4 \quad}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad 0 \quad}$$

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

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

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

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad -\frac{3}{7} \quad}$$

7) $(0, -3)$ and $(-5, 2)$

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

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

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

8) $(6, -1)$ and $(8, 4)$

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

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

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

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