

## Finding Slope: Ratio method

Find the slope of a line passing through (4, 6) and (7, 1).

$$\Delta y = y_2 - y_1 = 1 - 6 = -5$$

$$\Delta x = x_2 - x_1 = 7 - 4 = 3$$

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

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

1) (5, -3) and (-1, 6)

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

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

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

2) (7, 1) and (4, 8)

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

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

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

3) (1, 4) and (7, -2)

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

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

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

4) (-6, 4) and (2, 9)

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

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

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

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

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

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

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

6) (-5, 3) and (1, 10)

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

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

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

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

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

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

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

8) (0, 1) and (4, 9)

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

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

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