

Name : _____

Finding Slope: Ratio method

Sheet 1

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)

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

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

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

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)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad \frac{5}{8} \quad}$$

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

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

$$\Delta x = \underline{\quad 11 \quad}$$

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad \frac{3}{11} \quad}$$

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

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

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

$$\text{Slope} = \frac{\Delta y}{\Delta x} = \underline{\quad \frac{7}{6} \quad}$$

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

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

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

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

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

$$\Delta y = \underline{\quad 8 \quad}$$

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

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