Name: _____

Slope: Two-Point Form

Calculate the rise and run; and find the slope.

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

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

2) $(3, 5)$ and $(6, 2)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

3) $(8, 7)$ and $(4, 7)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

4) $(-5, 8)$ and $(-2, -1)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

5) $(-9, 2)$ and $(-1, 6)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

6) $(4, -7)$ and $(4, 0)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

7) $(-2, 1)$ and $(8, 3)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

8) $(5, -4)$ and $(2, 3)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

9) $(7, -1)$ and $(4, 2)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

10) $(-1, 3)$ and $(-2, 7)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

11) $(4, 1)$ and $(3, 1)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

12) $(8, 5)$ and $(9, 8)$

$Rise\ (\Delta y)\ =$ ☐

$Run\ (\Delta x)\ =$ ☐

$Slope = \dfrac{\Delta y}{\Delta x} =$ ☐

Answers: (Rise and run is calculated based on $y_2 - y_1$ and $x_2 - x_1$ respectively)

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

Rise (Δy) = $\boxed{4}$

Run (Δx) = $\boxed{-6}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{-\dfrac{2}{3}}$

2) $(3, 5)$ and $(6, 2)$

Rise (Δy) = $\boxed{-3}$

Run (Δx) = $\boxed{3}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{-1}$

3) $(8, 7)$ and $(4, 7)$

Rise (Δy) = $\boxed{0}$

Run (Δx) = $\boxed{-4}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{0}$

4) $(-5, 8)$ and $(-2, -1)$

Rise (Δy) = $\boxed{-9}$

Run (Δx) = $\boxed{3}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{-3}$

5) $(-9, 2)$ and $(-1, 6)$

Rise (Δy) = $\boxed{4}$

Run (Δx) = $\boxed{8}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{\dfrac{1}{2}}$

6) $(4, -7)$ and $(4, 0)$

Rise (Δy) = $\boxed{7}$

Run (Δx) = $\boxed{0}$

Slope $= \dfrac{\Delta y}{\Delta x} =$ *undefined*

7) $(-2, 1)$ and $(8, 3)$

Rise (Δy) = $\boxed{2}$

Run (Δx) = $\boxed{10}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{\dfrac{1}{5}}$

8) $(5, -4)$ and $(2, 3)$

Rise (Δy) = $\boxed{7}$

Run (Δx) = $\boxed{-3}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{-\dfrac{7}{3}}$

9) $(7, -1)$ and $(4, 2)$

Rise (Δy) = $\boxed{3}$

Run (Δx) = $\boxed{-3}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{-1}$

10) $(-1, 3)$ and $(-2, 7)$

Rise (Δy) = $\boxed{4}$

Run (Δx) = $\boxed{-1}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{-4}$

11) $(4, 1)$ and $(3, 1)$

Rise (Δy) = $\boxed{0}$

Run (Δx) = $\boxed{-1}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{0}$

12) $(8, 5)$ and $(9, 8)$

Rise (Δy) = $\boxed{3}$

Run (Δx) = $\boxed{1}$

Slope $= \dfrac{\Delta y}{\Delta x} = \boxed{3}$