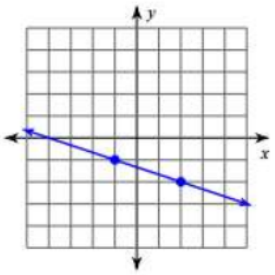
Name: _____ Date: _____

Slope

$\frac{Rise}{Run}$ $m = \frac{y_1 - y_2}{x_1 - x_2}$

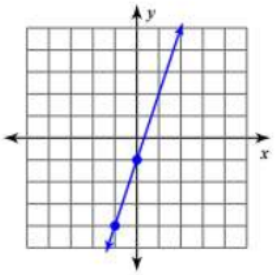
Find the slope of each line.

1)



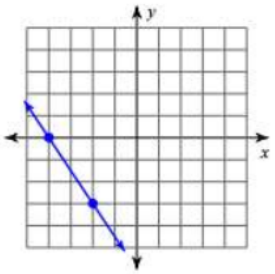
$-\frac{1}{3}$

2)



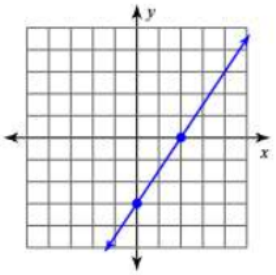
$\frac{3}{1}$

3)



$-\frac{3}{2}$

4)



$\frac{3}{2}$

5. *Find the slope of the line through each pair of points.*

(-12, -5) (0, -8)

$x_1 y_1 \; x_2 y_2$

$m = \frac{y_1 - y_2}{x_1 - x_2}$

$m = \frac{(-5)-(-8)}{(-12)-(0)}$

$m = \frac{3}{-12}$ math 1 enter

$m = -\frac{1}{4}$

(3, 4) (1, 6)

$x_1 y_1 x_2 y_2$

$m = \frac{(4)-(6)}{(3)-(1)}$

$m = \frac{-2}{2}$

$m = -1$

(-18, -2) (-18, 4)

$x_1 y_1 \; x_2 y_2$

$m = \frac{(-2)-(4)}{(-18)-(-18)}$

$m = \frac{-6}{0}$

$m = \text{Undefined}$

calc says error

(-4, 6) (1, 6)

6. *Find the slope of each line.*

$y = -5x - 1$

$y + 2x = 7$

$y = -\frac{1}{5}x - 4$

$2x + 3y = 9$

$2y = x + 4$

$3(x + 2) = y - 4$