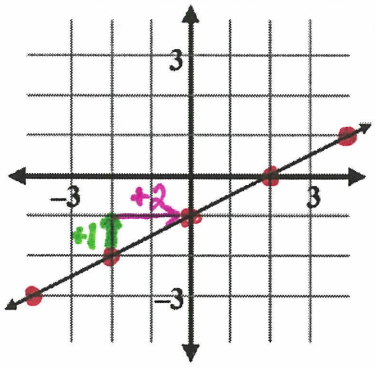
Principles of Algebra Name/Date Clee / Today

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 7A.2 – More Slope

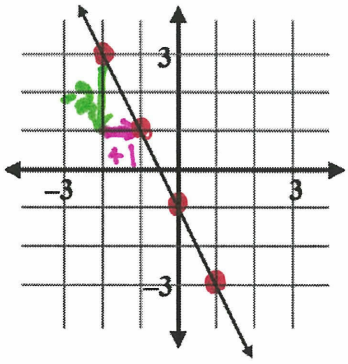
#1-4, Find the slope of each line.

1. 

Slope (m) = $\frac{\text{rise}}{\text{run}}$

Choose 2 pretty points and count the rise and run.

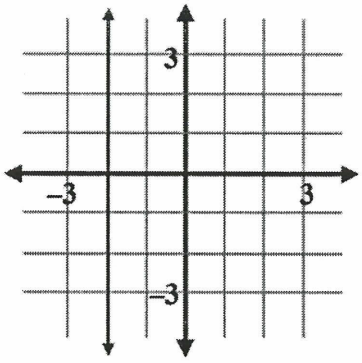
$m = \frac{1}{2}$

2. 

$m = \frac{\text{rise}}{\text{run}}$

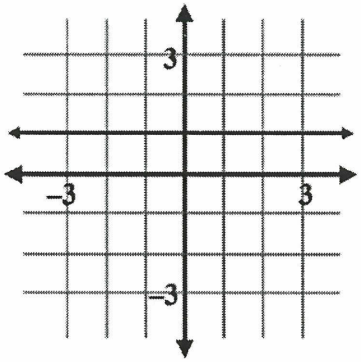
$m = \frac{-2}{1}$

or $m = -2$

3. 

Vertical line - slope is always undefined.

m is undefined

4. 

Horizontal line - slope is always zero

$m = 0$

#5-10, Find the slope of the line that contains each pair of points.

5. $(4,-3)$ and $(6,-13)$ (x_1 y_1 x_2 y_2)

We could graph and count or just use the slope formula.

$m = \frac{(-13)-(-3)}{(6)-(4)}$

$m = \frac{-10}{2} \Rightarrow m = -5$

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

6. $(-2,2)$ and $(-7,-1)$ (x_1 y_1 x_2 y_2)

$m = \frac{(-1)-(2)}{(-7)-(-2)}$

$m = \frac{-3}{-5} \Rightarrow m = \frac{3}{5}$

7. $(-6,-3)$ and $(-1,1)$ (x_1 y_1 x_2 y_2)

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

$m = \frac{4}{5}$

8. $(-5,-2)$ and $(-5,1)$ (x_1 y_1 x_2 y_2)

$m = \frac{(1)-(-2)}{(-5)-(-5)}$

$m = \frac{3}{0} \Rightarrow$ m is undefined

9. $(7,-2)$ and $(7,5)$ (x_1 y_1 x_2 y_2)

$m = \frac{(5)-(-2)}{(7)-(7)}$

$m = \frac{7}{0} \Rightarrow$ m is undefined

10. $(2,5)$ and $(8,-4)$ (x_1 y_1 x_2 y_2)

$m = \frac{(-4)-(5)}{(8)-(2)}$

$m = \frac{-9}{6} \Rightarrow m = \frac{-3}{2}$