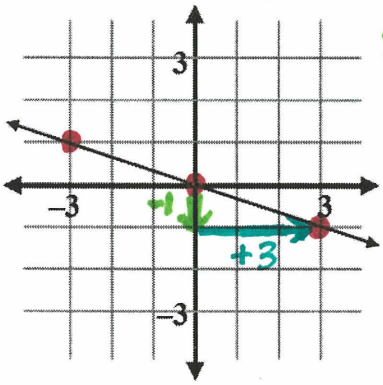
Principles of Algebra Name/Date Clee / Today

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 7A.1 – Slope

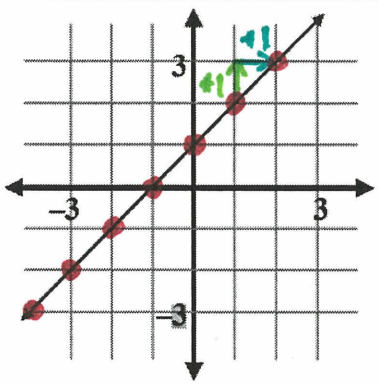
#1-4, Find the slope of each line.

1. 

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

Choose 2 pretty points and count the rise and run.

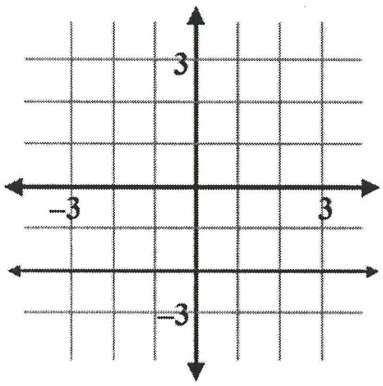
$m = -\frac{1}{3}$

2. 

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

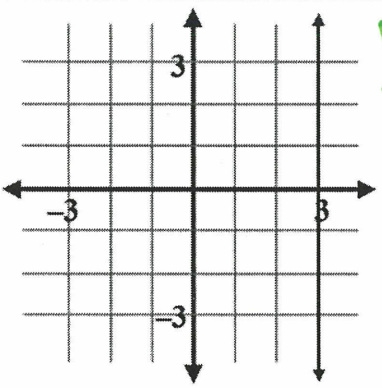
Choose 2 pretty points and count the rise and run.

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

3. 

Horizontal line - slope is always zero

$m = 0$

4. 

Vertical line - slope is always undefined

m is undefined

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

5. $(3,9)$ and $(1,5)$
$x_1\ y_1$ $x_2\ y_2$

$m = \frac{(5)-(9)}{(1)-(3)}$

$m = \frac{-4}{-2}$

$m = 2$

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

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

6. $(-1,3)$ and $(3,-2)$
$x_1\ y_1$ $x_2\ y_2$

$m = \frac{(-2)-(3)}{(3)-(-1)}$

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

7. $(-3,0)$ and $(4,-2)$
$x_1\ y_1$ $x_2\ y_2$

$m = \frac{(-2)-(0)}{(4)-(-3)}$

$m = \frac{-2}{7}$

8. $(-2,7)$ and $(-2,-1)$
$x_1\ y_1$ $x_2\ y_2$

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

$m = \frac{-8}{0} \Rightarrow$ m is undefined

9. $(6,4)$ and $(-7,4)$
$x_1\ y_1$ $x_2\ y_2$

$m = \frac{(4)-(4)}{(-7)-(6)}$

$m = \frac{0}{-13} \Rightarrow m = 0$

10. $(-8,2)$ and $(-3,6)$
$x_1\ y_1$ $x_2\ y_2$

$m = \frac{(6)-(2)}{(-3)-(-8)}$

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