

Name: _____

Date: _____

Lesson 3 Assessment

1. Determine the equation of the line between the points (4, 3) and (12, -3). Write your answer in slope-intercept form $f(x) = mx + b$.

2. The function $P(n) = 455n - 1820$ represents a computer manufacturer's profit when n computers are sold.

a) Identify the vertical intercept. **Write it as an ordered pair and interpret its practical meaning in a complete sentence.**

Ordered Pair: _____

b) Determine the horizontal intercept. **Write it as an ordered pair and interpret its practical meaning in a complete sentence.**

Ordered Pair: _____

3. Determine the equation of the vertical line passing through the point (4, 7). _____

4. The x -axis is a line. Write the equation of this line. _____

5. Fill in the table below. Intercepts must be written as ordered pairs. Write “N” if your answer does not exist (is undefined).

I = Increasing

D = Decreasing

C = Constant (Horizontal)

V = Vertical

Equation	Slope	Vertical Intercept	Horizontal Intercept	Behavior I, D, C, V
$y = 2x - 16$				
$f(x) = 8 - 3x$				
$y = -2$				
$y = x$				
	-5	(0, 20)		
		(0, -9)	(-3, 0)	
$x = 6$				