Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples
Equations as Functions	• Functions can also be represented by an _____ (or rule). • The equation will generate _____ _____ by taking an _____ that results in a certain _____. • The x-value is always called the _____ variable. • The y-value is always called the _____ variable. • The graph of an equation is the set of all its ordered pairs, which often form a _____ or a _____.

Function Tables

Directions: Complete each function table.

1. $y = x + 7$

x		y	(x, y)
-1			
0			
2			
4			

2. $y = x - 13$

x		y	(x, y)
3			
6			
9			
12			

3. $y = 1 - x$

x		y	(x, y)
-5			
-4			
-3			
-2			

4. $y = 2x - 7$

x		y	(x, y)
0			
2			
5			
8			

5. $y = \frac{1}{2}x - 9$

x		y	(x, y)
-6			
-2			
0			
14			

6. $y = -\frac{4}{3}x + 11$

x		y	(x, y)
-9			
-3			
3			
6			

Directions: Given each function and domain, find the range values.

7. $y = x - 5$; domain = {4, 6, 8}

8. $y = 3x + 1$; domain = {-1, 0, 1}

9. $y = -2x + 5$; domain = {-2, 2, 4}

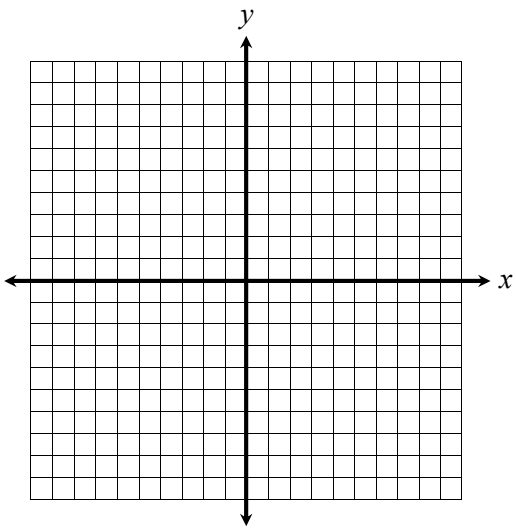
10. $y = -4 - x$; domain = {-6, 2, 7}

Types of Functions

Directions: Complete each function table. Then graph the function.

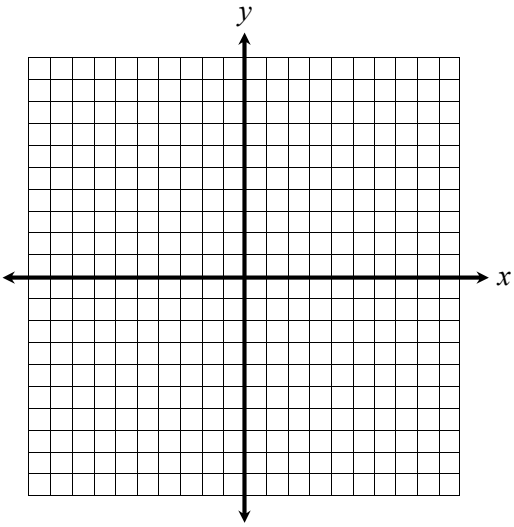
Equation 1: $y = x + 3$

x		y	(x, y)
-7			
-3			
0			
2			
5			



Equation 2: $y = x^2$

x		y	(x, y)
-3			
-2			
0			
2			
3			



- The first equation produced a _____, so it is called a _____ _____.
- The second equation produced a _____, so it is called a _____ _____.
- We will focus on graphing _____ equations in this unit!

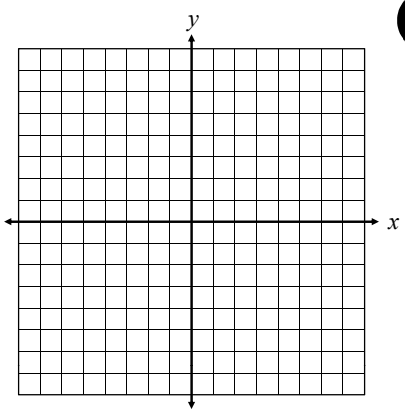
GRAPHING LINEAR EQUATIONS

{Using a Table!}

Directions: Complete each table, then graph the equation.

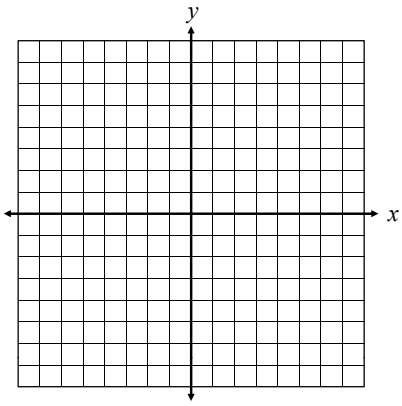
1 $y = x + 6$

x	y
-1	
0	
2	
4	



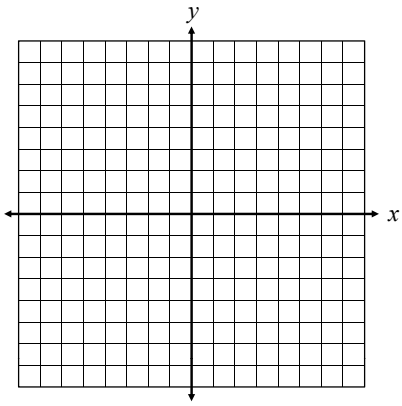
2 $y = -x$

x	y
-5	
-2	
0	
3	



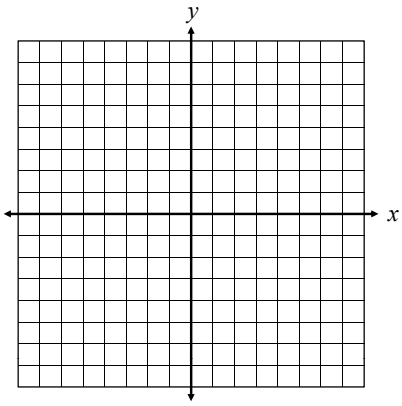
3 $y = -4x$

x	y
-2	
-1	
0	
2	



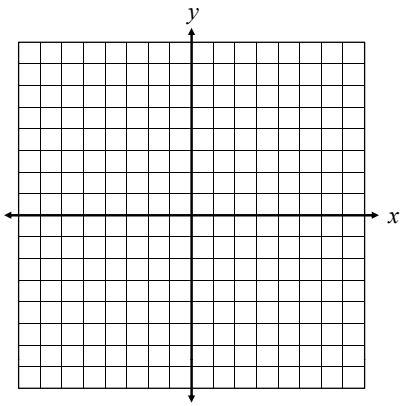
4 $y = 2x - 4$

x	y
-2	
3	
5	
6	



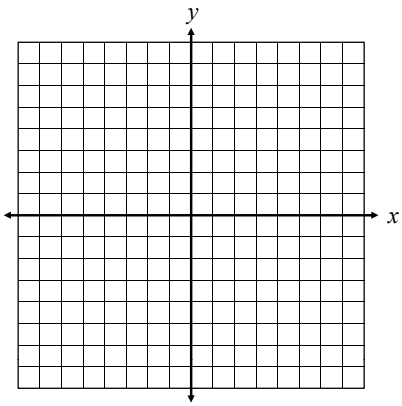
5 $y = -3x + 5$

x	y
-1	
1	
3	
4	



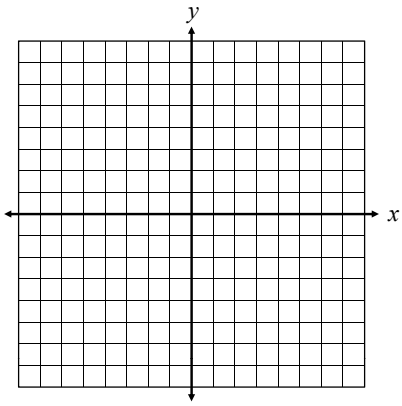
6 $y = -x + 9$

x	y
1	
3	
5	
8	



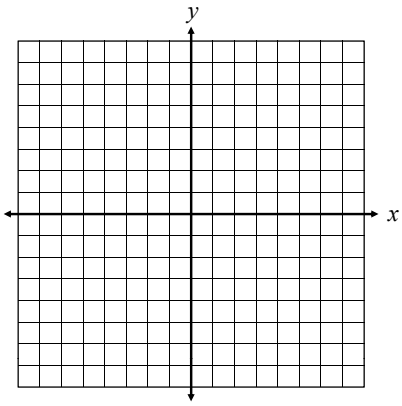
7 $y = \frac{x}{2} + 7$

x	y
-8	
-6	
-2	
0	



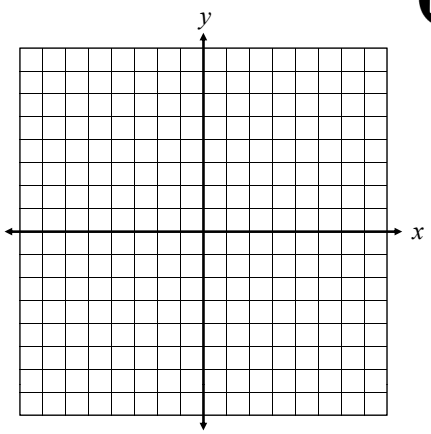
8 $y = -\frac{1}{4}x + 2$

x	y
-8	
-4	
0	
4	



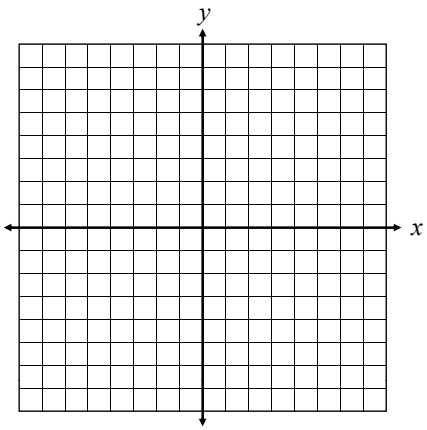
9 $y = 2x$

x	y



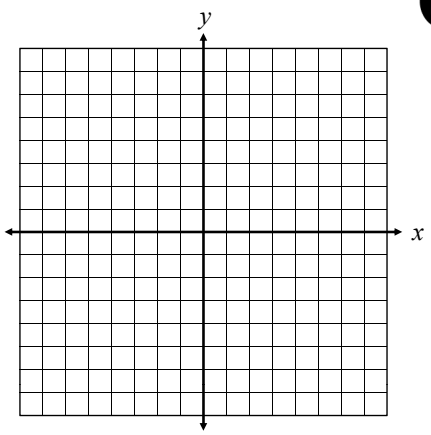
10 $y = 3 - x$

x	y



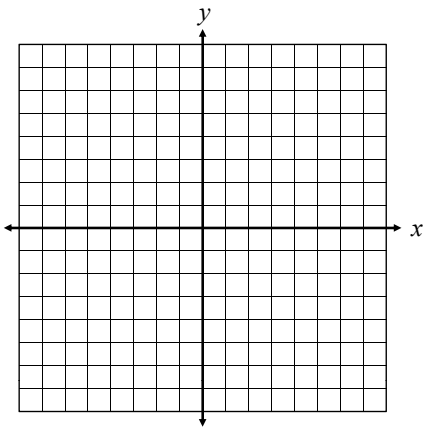
11 $y = 4x - 5$

x	y



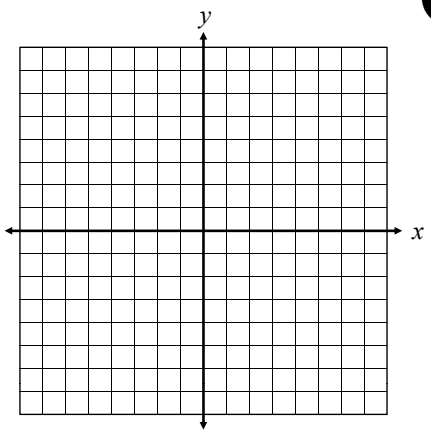
12 $y = 1 - \frac{x}{3}$

x	y



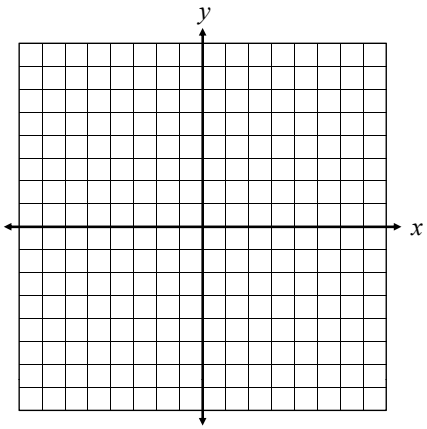
13 $y = x - 4$

x	y



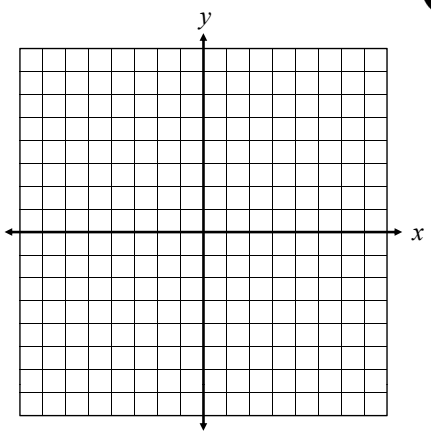
14 $y = 7 - 3x$

x	y



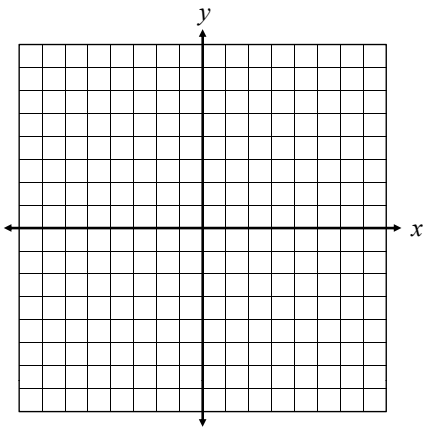
15 $y = \frac{5}{2}x - 8$

x	y



16 $y = 4 - \frac{1}{3}x$

x	y



Name: _____ **Unit 5:** Functions & Linear Relationships

Date: _____ **Per:** _____ **Homework 2:** Graphing Linear Equations (by table)

**** This is a 2-page document! ****

Directions: Given each function and domain, find the range values.

1. $y = 5x - 9$; domain = {1, 3, 7}

2. $y = x^2 - 2x$; domain = {-3, 0, 5}

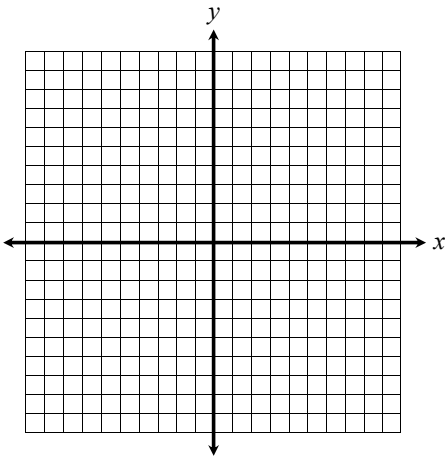
3. $y = \frac{3}{4}x + 7$; domain = {-8, -4, 12}

4. $y = 14 - 3x$; domain = {-6, 5, 13}

Directions: Complete each table, then graph the equation.

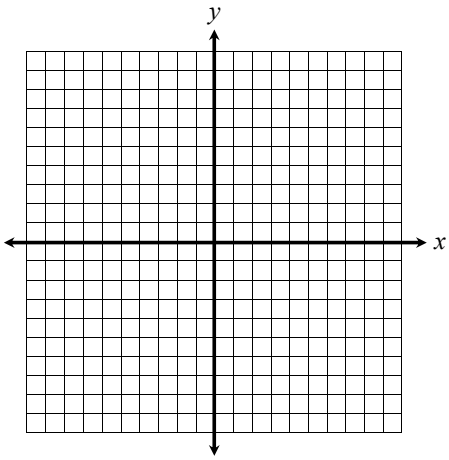
5. $y = 2x$

x	y
-5	
-3	
-1	
2	
4	



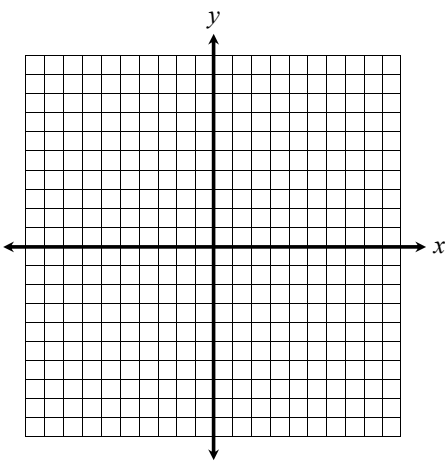
6. $y = x - 6$

x	y
-3	
0	
5	
7	
10	



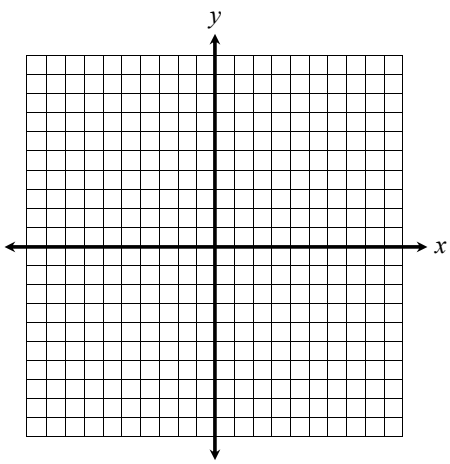
7. $y = 4 - x$

x	y
-4	
-1	
0	
5	
9	



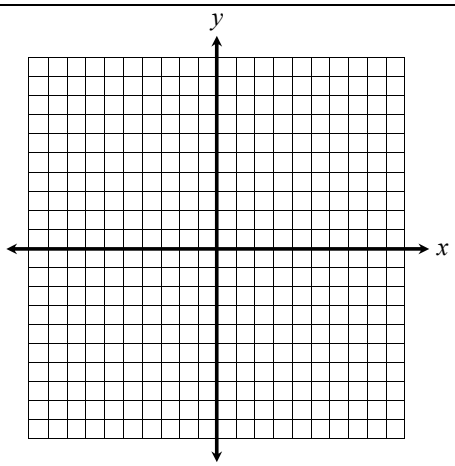
8. $y = -\frac{1}{3}x$

x	y
-9	
0	
3	
6	
9	



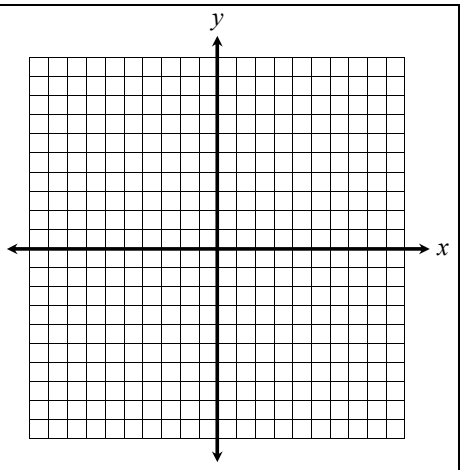
9. $y = 3x + 4$

x	y
-4	
-3	
-1	
5	
9	



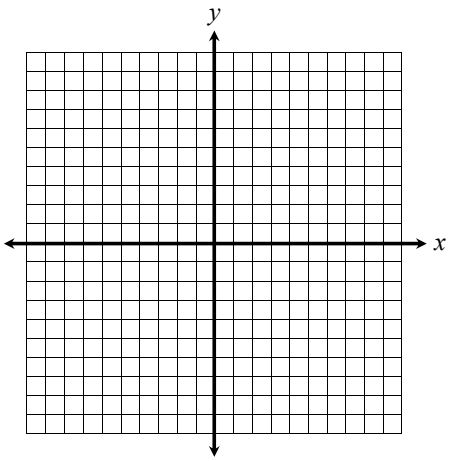
10. $y = -2x + 5$

x	y
-2	
-1	
1	
3	
7	



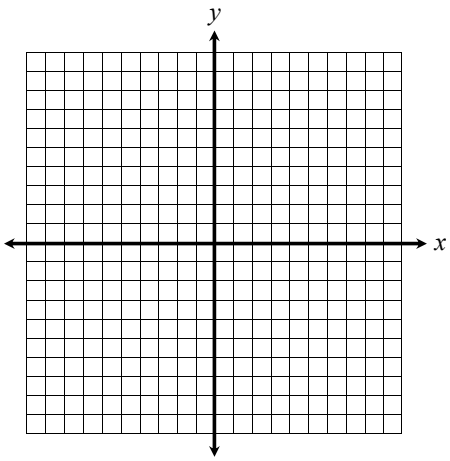
11. $y = 7 - 4x$

x	y
0	
1	
2	
3	
4	



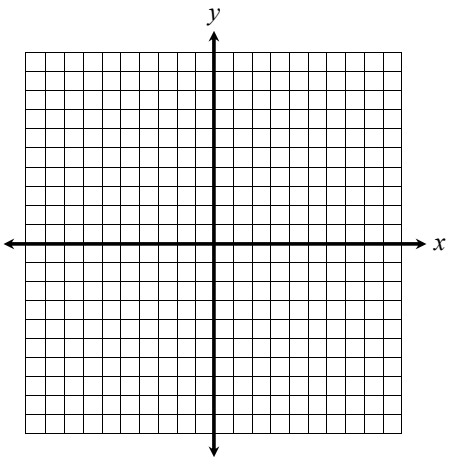
12. $y = -\frac{4}{5}x + 1$

x	y
-10	
-5	
0	
5	
10	



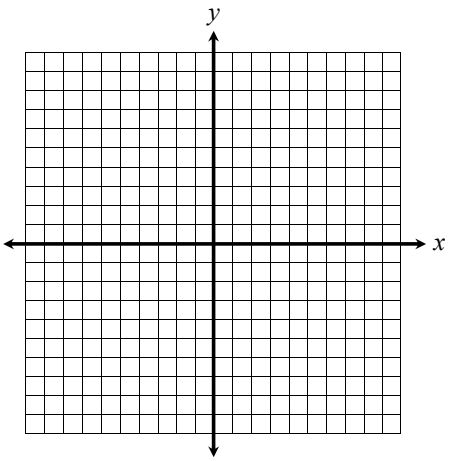
13. $y = \frac{x}{3} + 2$

x	y



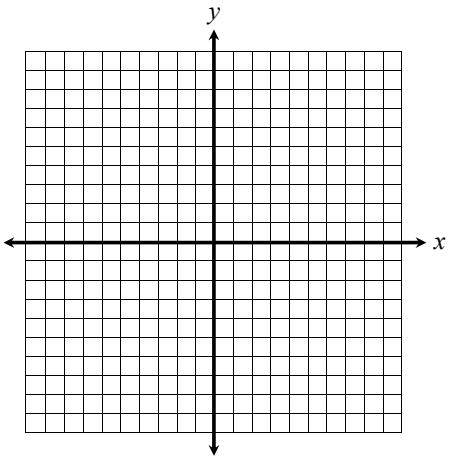
14. $y = -7 - x$

x	y



15. $y = \frac{3}{2}x - 2$

x	y



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

x	y