Math 9 – Coordinate Geometry Name: _____

Lesson #2: Graphing Linear Relationships Date: _____

Once again, we will begin with some new vocabulary:

Independent Variable

Dependent Variable

Linear Relationship

Table of Values

The goal for today's lesson is to graph a linear relationship using this algorithm:

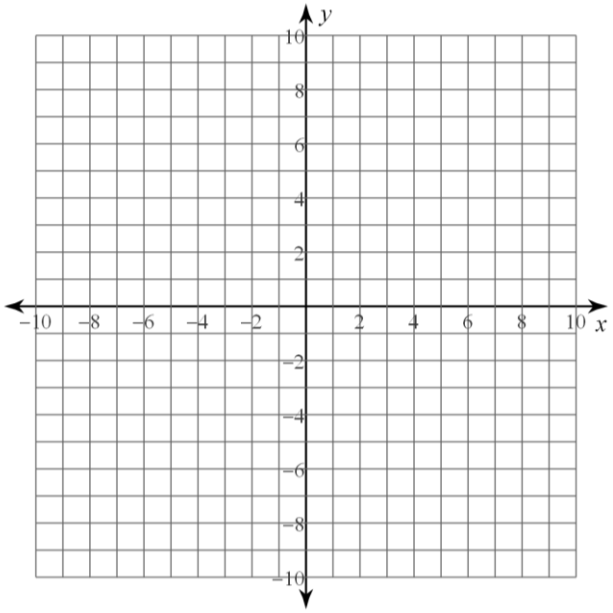
1. Rearrange the equation so it is dependent variable = everything else (or y=_____)
2. Create a Table of Values and choose an appropriate set of x-coordinates.
3. Use that set and calculate the corresponding y-coordinates.
4. Create the point (x,y).
5. Plot the points.
6. Draw a line through the points (do not just connect them).

Your table of values should look like this:

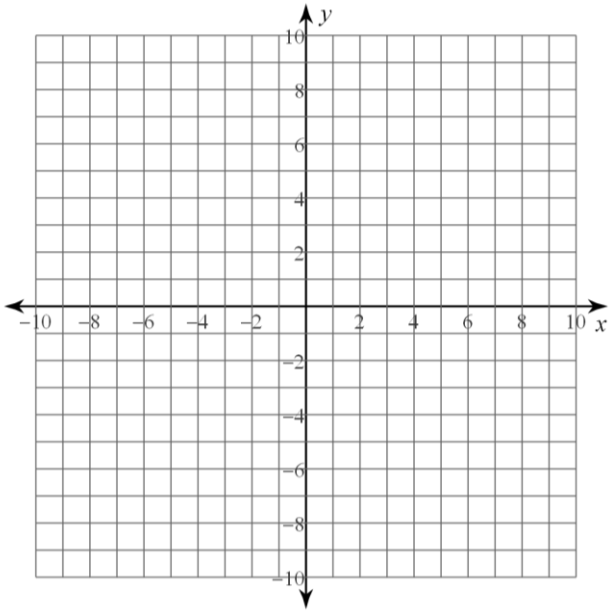
x	y	(x,y)
Set of x-coordinates	Corresponding y-coordinates	Set of points to plot

Examples:

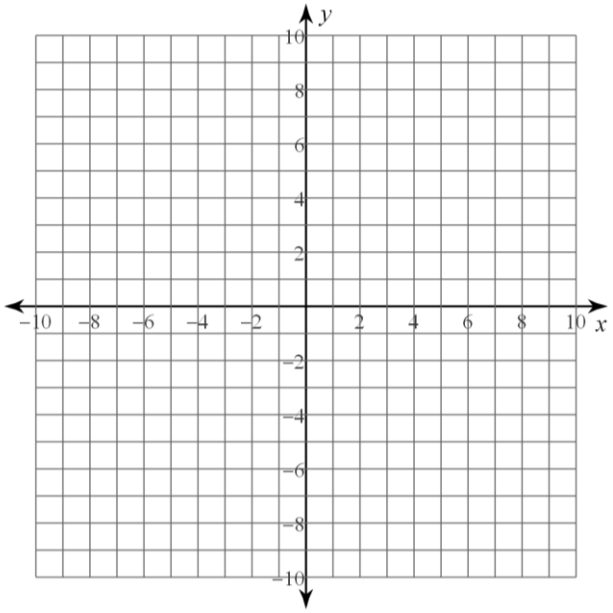
1. $y = x - 3$



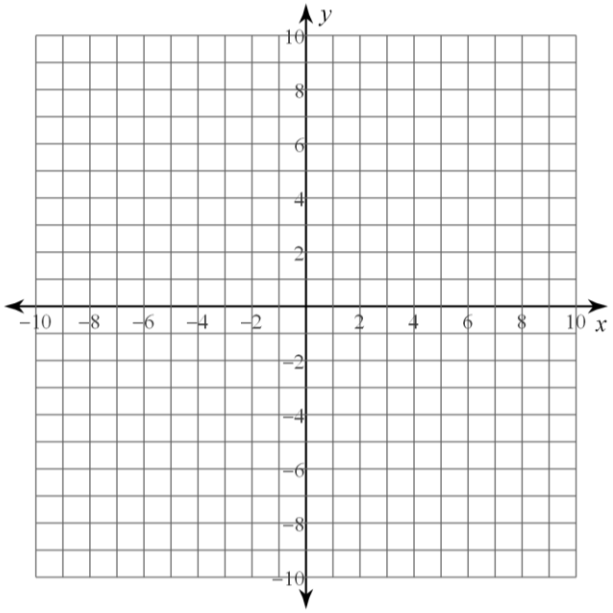
2. $x + y = 5$



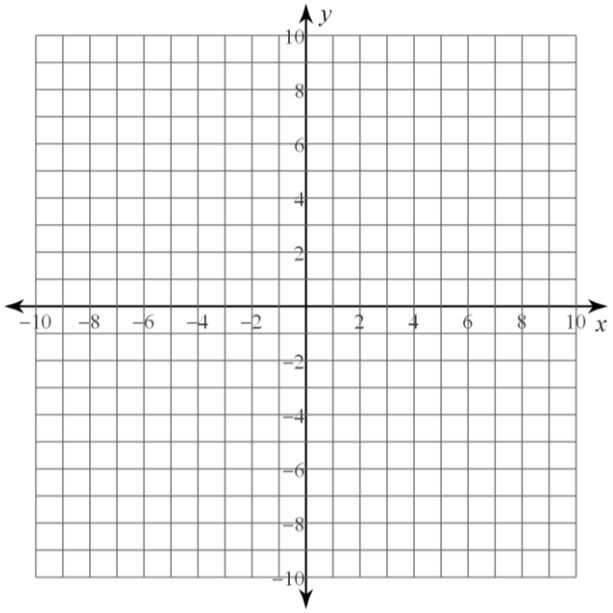
3. $2x - y = 1$



4. $6x + 2y - 10 = 0$



5. $y = \frac{1}{2}x - 4$



6. $3x - 4y = 12$