

UNIT 2 LESSON 1 – GRAPHING LINEAR FUNCTIONS**PART 1 – X- AND Y- INTERCEPTS**

Using graph paper provided, graph the two points listed for each question below. USE A RULER to connect the points and draw the line through both the x and y axes. After graphing, count slope and find both the x and y intercepts. **As a reminder, the process for graphing a line by hand is to simply plot the points and draw a straight line through them using a ruler.** Finally, fill in the chart below with the slope, x-intercept, and y-intercept.

	Two points	Slope	X-Intercept	Y-Intercept
1.	(4 , 6) , (-4 , 2)			
2.	(-4 , -10) , (8 , 5)			
3.	(-2 , 10) , (5 , -4)			
4.	(1 , -2) , (-2 , -8)			
5.	(-4 , 3) , (4 , -1)			

PART 2 – SLOPE AND Y-INTERCEPT

Find the slope and y-intercept of each equation.

6) $y + 3 = x$

7) $2y - 10 = -4x$

8) $-5 - y = -3x$

9) $y = 5x$

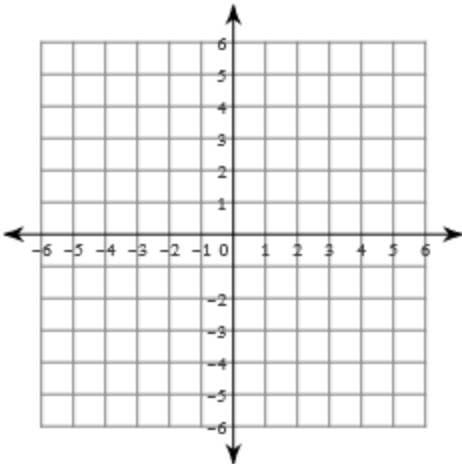
10) $6 - 2y = -x$

11) $5y + 10 = -2x$

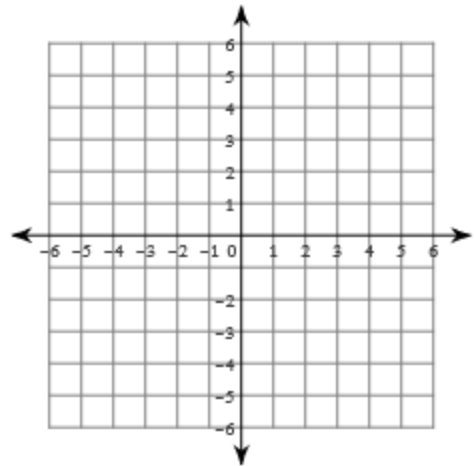
PART 3 – GRAPHING LINEAR EQUATIONS

Sketch the graph of each line.

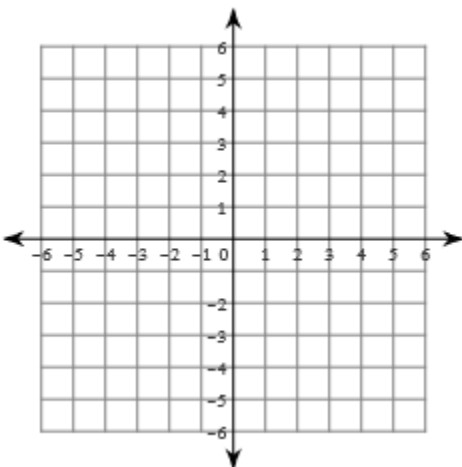
12) $y = -2x + 2$



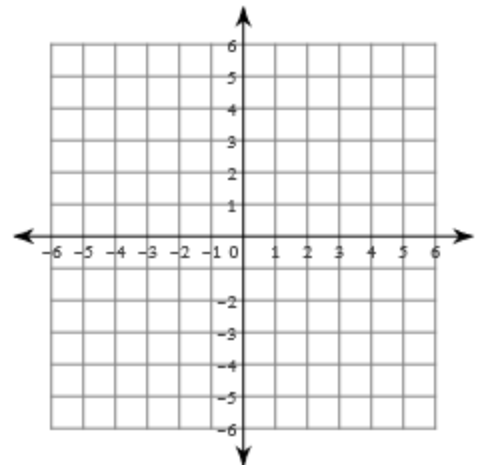
13) $y = \frac{3}{5}x - 4$



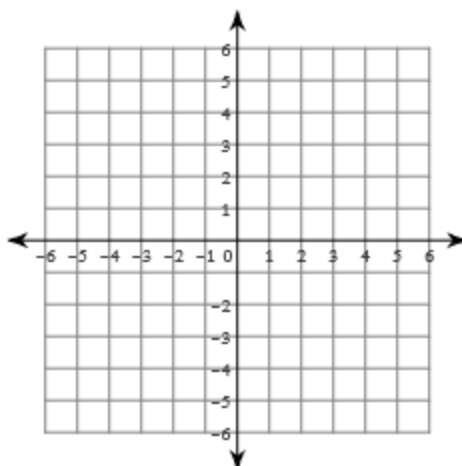
14) $y = \frac{1}{4}x + 1$



15) $y = -4$



16) $y = 2x$



17) $y = -3x + 1$

