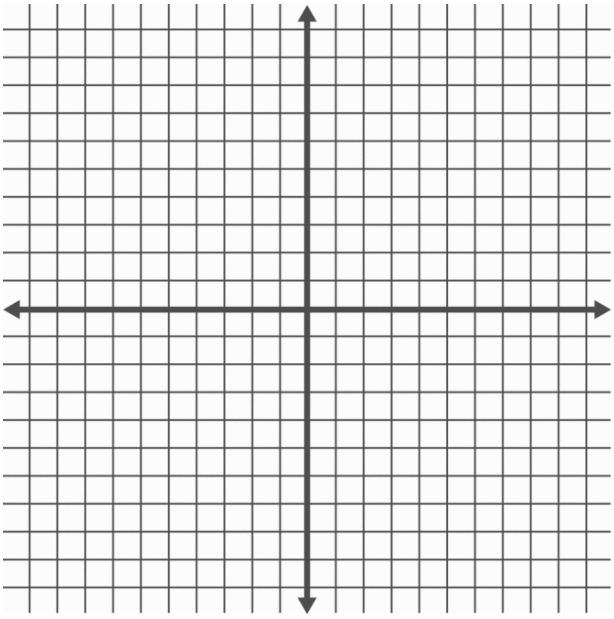
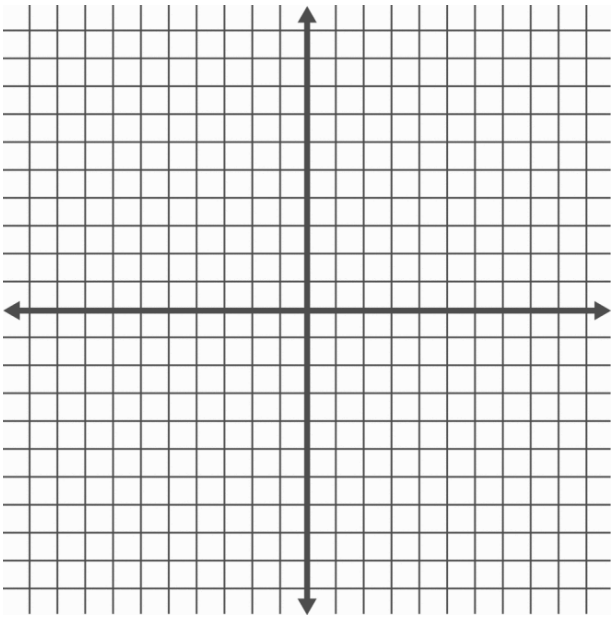
Unit 4.2 Graphing Linear Equations

1. Graph the following lines by finding at least 2 ordered pairs and plotting them on the graph provided

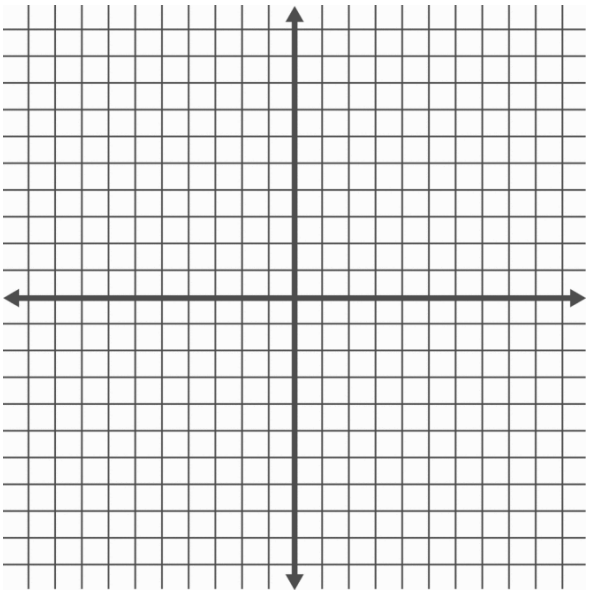
   a. $x + 1 = 2y$



   b. $4x = 3y - 5$



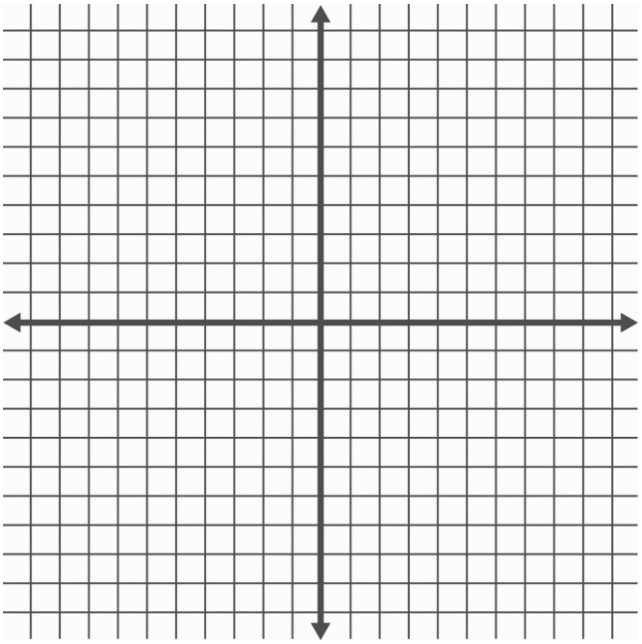
c. $\frac{2}{3}x - y = 4$



2. The relationship between Celsius and Fahrenheit is linear. Convert °C (Celsius) to °F (Fahrenheit) using the following equation

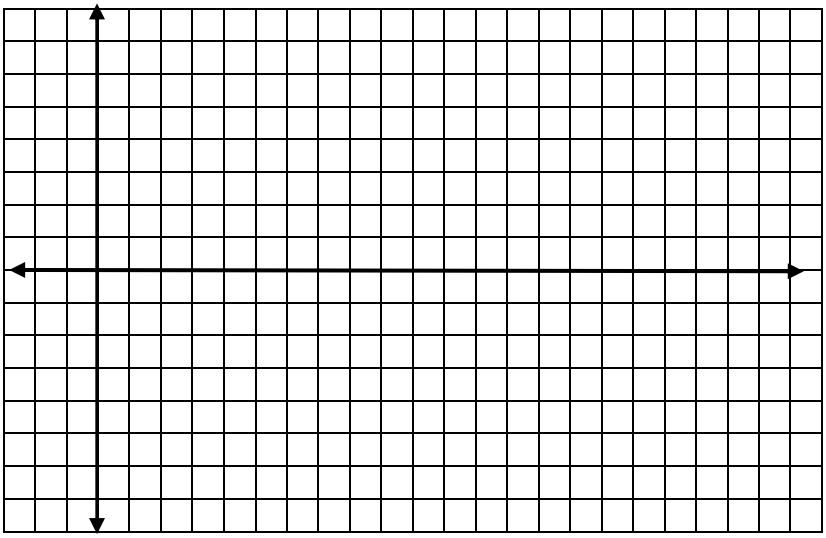
$°F = (\frac{9}{5} * °C) + 32$ or $°F = (1.8 * °C) + 32$

Fill in the following table and then graph the ordered pairs on the graph provided. Scale the graph accordingly



°C	°F
- 40	
-10	
0	
	50
	86

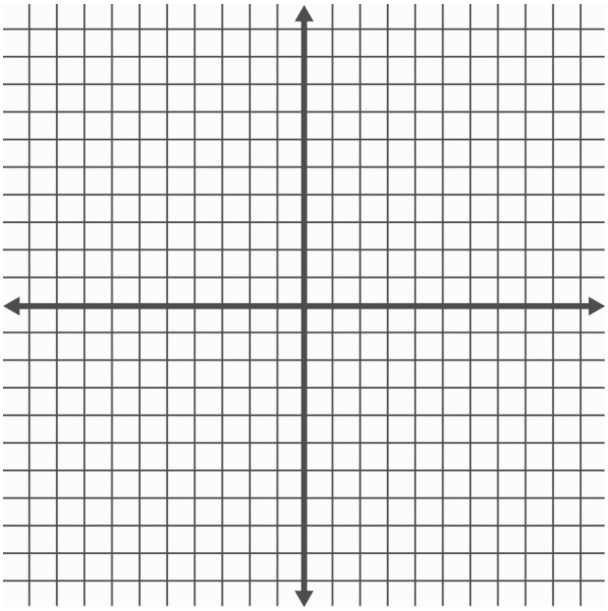
3. Ohms Law ($V = I * R$) is a linear relationship. If R remains a constant 3 Ω, fill out the following table for I (current) for the corresponding V (voltage) values. Graph the resulting ordered pairs using the graph provided.



V	I
0	
1	
3	
6	
9	
12	
15	
18	

4. Graph the following linear equations by finding the x-intercept and y-intercept

   a. $3x - 7y = -21$
   x intercept: _____
   y intercept: _____



b. $\frac{2}{3}x - \frac{3}{4}y = 6$

x intercept: _____

y intercept: _____