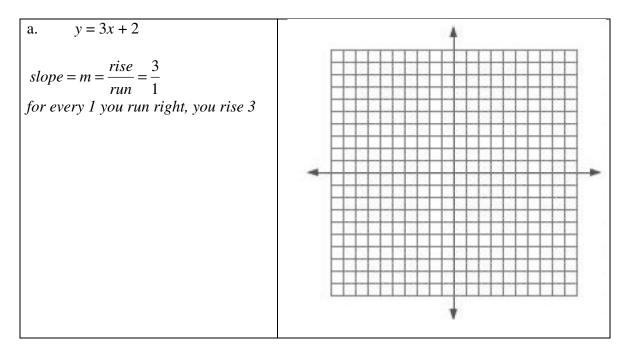
MA20SA COORDINATE GEOMETRY WORKSHEET 1 PLOTTING LINES

Name:	
Date: _	

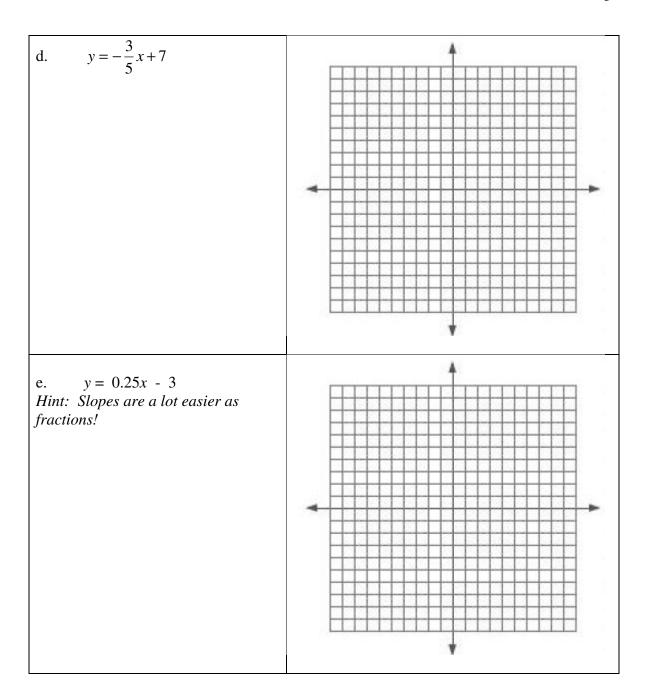
1. What is the slope and y-intercept of the following equations?

y = 3x + 2 Slope (m) = Y-Intercept (b) =	y = 2x - 5 Slope (m) = Y-Intercept (b) =	y = -3x + 2 Slope (m) = Y-Intercept (b) =
y = -x + 2 Slope (m) = Y-Intercept (b) =	$y = \frac{3}{5}x + 2$ Slope (m) = Y-Intercept (b) =	$y = -\frac{5x}{8} - 4$ Slope (m) = Y-Intercept (b) =

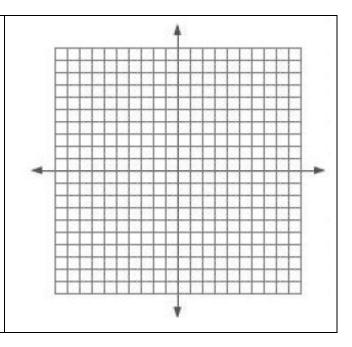
2. Plot the lines given the slope and intercept form.



y = -3x + 5	†
via 2	
$slope = m = \frac{rise}{run} = \frac{-3}{1}$	
run 1	
or every 1 you run right, you drop 3	
	<u> </u>
	*
2	4.5
$y = \frac{3}{5}x + 4$	A
$y = \frac{3}{8}x + 4$	<u> </u>
$y = \frac{3}{8}x + 4$	A
$y = \frac{3}{8}x + 4$	1
$y = \frac{3}{8}x + 4$	



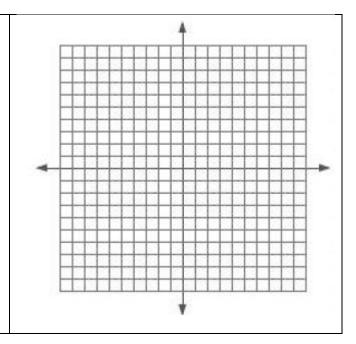
f. y = -2.6x - 7



3. Plot the lines given the Standard form

a. 3x - 2y = 6

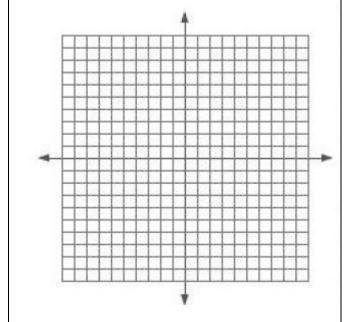
x	y
0	
	0

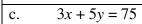


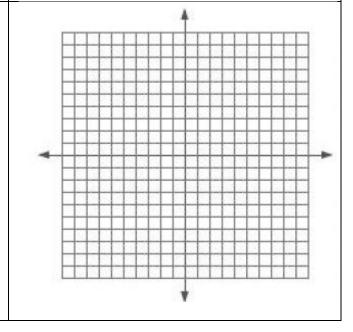
b.	20x +	10y =	= 100
----	-------	-------	-------

X	y
0	
	0

When x = 0, $y = _______$ When y = 0, $x = ________$





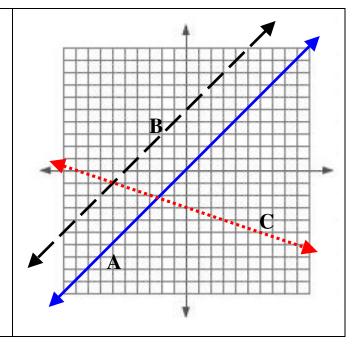


4. What is the equation of each of the labeled lines?

Δ

- .
- В. _____

C. _____



Formulas

Slope = m =
$$\frac{Rise}{Run}$$
 = $\frac{(y_2 - y_1)}{(x_2 - x_1)}$

Slope-Intercept form of a line: y = mx + b where m is slope and b is the y-intercept

Standard form of a line: Ax + By = C where A, B, C are real numbers