Graphs of Linear Equations

Name:_____

1. Write the following equations in standard $Ax + By = C$ form:

(A) $x = y + 2$

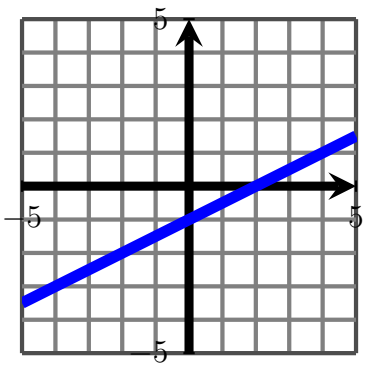
(B) $3x + 2y + 1 = x - y + 4$

(C) $2(x + y) = 3(y + 1)$

2. Complete the table of solutions to the equation $3x - 2y = 5$

x	-1	1			0	
y			2	5		0

3. A linear equation $Ax + By = C$ has graph given below.
Which of the following are solutions to the equation?



(A) $x = 1, \quad y = 4$

(B) $x = 4, \quad y = 1$

(C) $x = 0, \quad y = 0$

(D) $x = -2, \quad y = -2$

(E) $x = -3, \quad y = -4$

(F) $x = -4, \quad y = -3$

4. Consider the linear equation $3x - y = 1$.
Which of the following points are included in its graph?

$(0, -1)$

$(-1, -1)$

$(1, 1)$

$(-1, 0)$

$(1, 2)$

$(0, 0)$

5. Find **three points** on the graph of each of the following equations.

(A) $x + y = 2$	**(B)** $2x + 5y = 10$	**(C)** $x = 3$	**(D)** $y = 2$

6. What is the form for the equation of a **vertical** line?

7. What is the equation for the x**-axis**?

8. What is the form for the equation of a **horizontal** line?

9. What is the equation for the y**-axis**?

10. Which of the graphs below is the line $2x + 3y = 5$?