First name: _____ Last name: _____ Student ID: _____

Chapter 4 Linear and Non–Linear Relations (1) Homework

1. Which of the following ordered pairs solve this equation: $y = 3x - 4$?

a) $(0, -4)$ b) $(1, 2)$ c) $(1, -1)$ d) $(2, -3)$

2. a) Which of these ordered pairs solves the equation $y = 5x - 6$?

a) $(1, -2)$ b) $(1, -1)$ c) $(2, 3)$ d) $(2, 4)$

b) Which of those are points on the graph of $y = 5x - 6$?

3. True or false?

a) $(-2, -3)$ is on the line whose equation is $x + y = 5$.

b) $(2, 3)$ is on the line whose equation is $x + y = 5$.

4. Each of the following has the form $y = ax + b$. What number is a and what number is b?

a) $y = 2x + 3$ b) $y = x - 4$ *c)* $y = -x + 1$

d) $y = 5x$ e) $y = -2$ f) $y = -4x - 5$

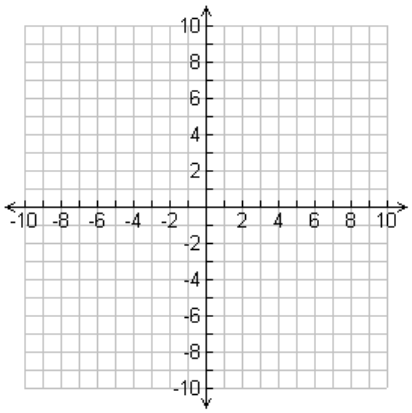
5. Calculate the value of x when $y = 0$.

a) $y = 2x + 4$ b) $y = 3x - 12$ c) $y = 4x + 1$

6. Use table of values to graph the following equations.

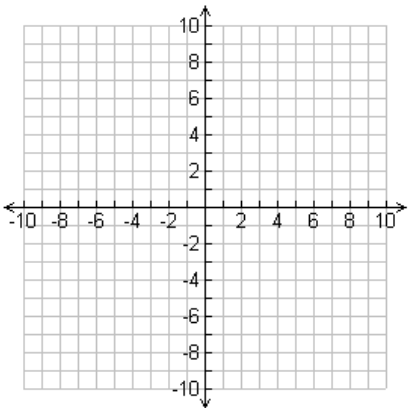
a) $y = x + 5$

x	***y***



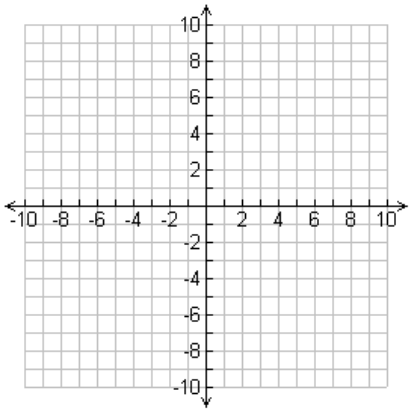
b) $y = 2x - 1$.

x	***y***



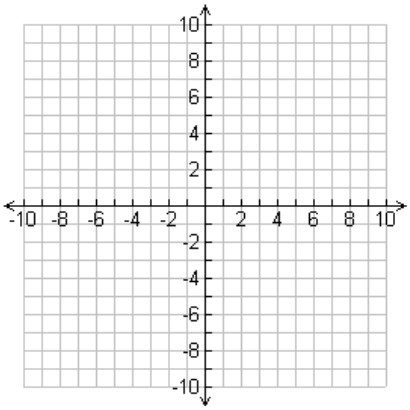
c) $y = -4x + 3$

x	*y*



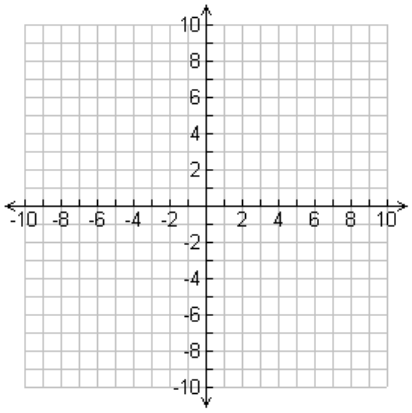
d) $y = \frac{1}{3}x - 6$

x	*y*



e) $y = -\frac{5}{2}x - 1$

x	*y*



f) $3x - 6y + 24 = 0$

x	*y*