HW Section 10.3 Graphing Linear Equations

- 1. Graph each of the following equations by making a table of values.
- a) y = 3x

х	0	1	2	3	4
у					

b) y = 3x + 1

x	0	1	2	3	4
у					

c) y = 3x + 2

х	0	1	2	3	4
у					

2. Given the following equation, evaluate the value of "y" when given the value of "x". Show all your work with the space given:

a)
$$v y = \frac{2}{3}x$$

i)
$$x = 6$$

i)
$$x = 6$$
 ii) $x = 12$

i)
$$x = 24$$

b)
$$y = 3x + 5$$
 i) $x = 4$

i)
$$x = 4$$

ii)
$$x = 8$$

i)
$$x = 24$$

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

i)
$$x = 2$$

ii)
$$x = 7$$

i)
$$x = 18$$

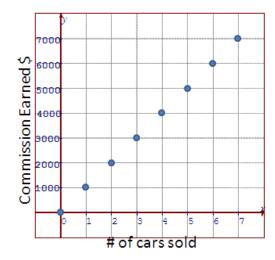
d)
$$y = \frac{2x}{3} + 4$$
 i) $x = 0$

i)
$$x = 0$$

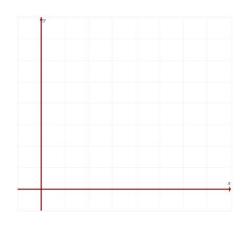
ii)
$$x = 3$$

i)
$$x = 9$$

- 3. Given the following equation, indicate which points will not be on the line y=3x-4. Show all your work and steps: A(-2,-10), B(0,-4), $C(\frac{2}{3},-2)$, D(5,-11), E(20,54)
- 4. The following graph shows how much Zack earns from commission for the number of cars he sells in a month. Use the graph below to answer the following questions:



- a) How much does Zack earn if he sold 4 cars?
- b) If he earned \$7000 in commission, how many cars did he sell?
- c) How much commission will he earn if he did not sell any cars?
- d) Give an equation that relates the number of cars (N) sold with the commission earned (C)
- e) Should we connect the dots in the graph? Explain why or why not
- 5. Neil is jogging around his neighbourhood at a constant speed and his distance away from home is given by the formula: $D = \frac{4}{3}t + 20$. "D" is the distance in meters and "t" is the time in seconds. Make a table of values and then graph it.



t	D
20	
40	
60	
80	
100	