



A local company offers a cell phone plan that has a fixed cost per month and a cost related to the number of text messages sent. The fixed cost is \$30 and each message sent cost 15 cents.

i) Write an equation that relates the total cost to the number of text messages sent.

$$y = 0.15x + 30$$

$x = \# \text{ of texts}$
 $y = \$ \text{ Total Cost}$

ii) How much would your bill be if you sent 123 text messages in one month?

$$y = 0.15x + 30$$
$$y = 0.15(123) + 30$$
$$y = 18.45 + 30$$
$$y = \$48.45$$

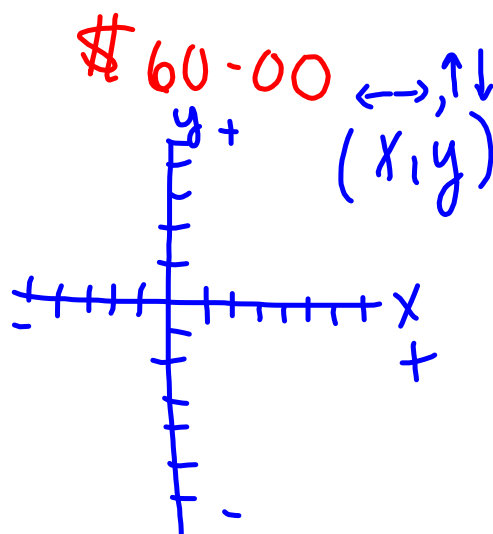
$$y = 0.15x + 30$$

$$\textcircled{60} = \textcircled{0.15x} + 30$$

$$-0.15x = 30 - 60$$

$$\frac{-0.15x}{-0.15} = \frac{-30}{-0.15}$$

$$x = 200 \text{ texts.}$$



Graphing

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

1) $y = 2x - 1$

$\frac{1}{2}$

x	y
-2	-5
-1	-3
0	-1
1	1
2	3

2) $y = -4x + 0$

x	y
-1	4
0	0
1	-4

3) $y = x - 1$

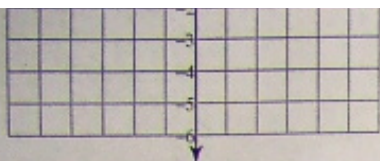
$\frac{1}{1}$

x	y
-4	-5
-3	-4
-2	-3
-1	-2
0	-1
1	0
2	1
3	2

4) $y = 6x - 1$

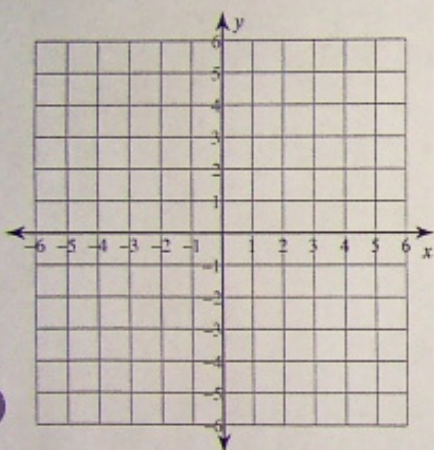
$\frac{6}{1}$

x	y
0	-1
1	5
2	11

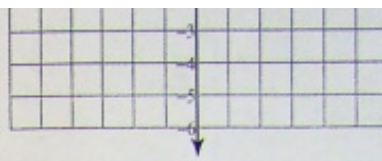


2
3

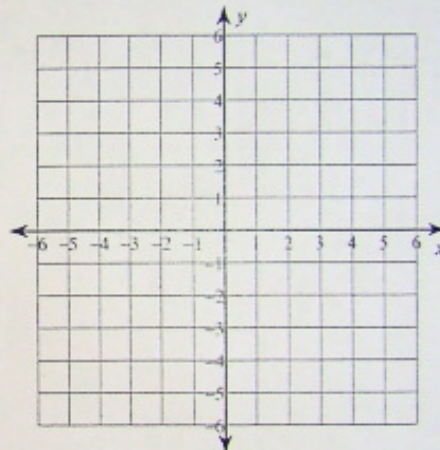
5) $y = -2x - 3$



x	y
-4	
-3	
-2	
-1	
0	
1	

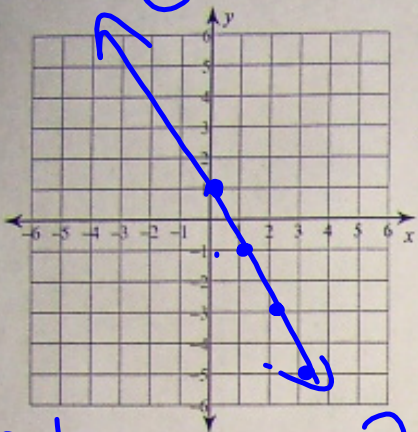


6) $y = -3x + 5$



x	y
0	
1	
2	
3	

7) $y = -2x + 1$

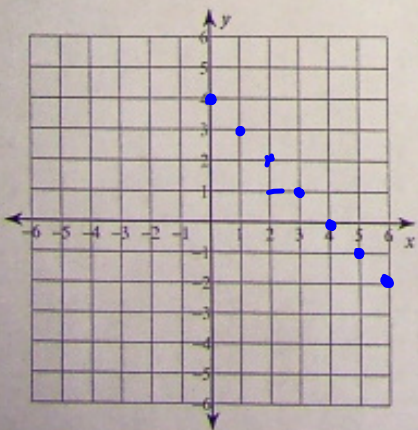


x	y
-2	
-1	
0	
1	
2	
3	

$-\frac{1}{2}$

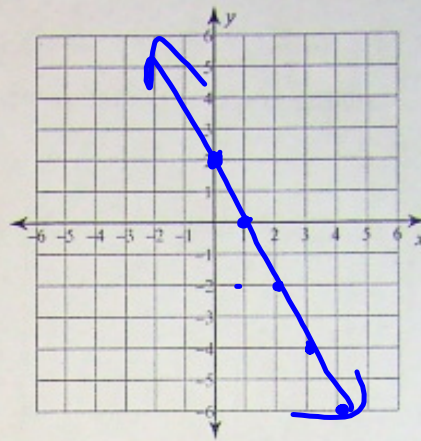
$-\frac{2}{1}$

9) $y = -x + 4$



x	y
0	
1	
2	
3	
4	

8) $y = -2x + 2$

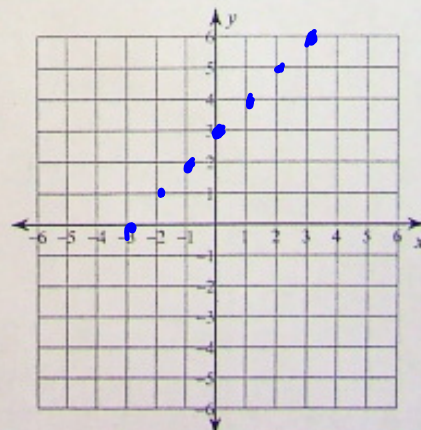


x	y
-1	
0	
1	
2	

$-\frac{2}{1}$

$-\frac{1}{2}$

10) $y = x + 3$

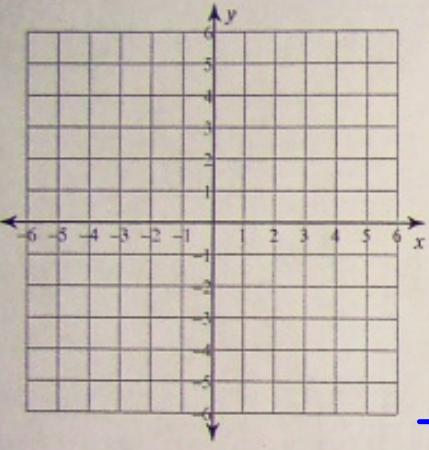


x	y
-4	
-3	
-2	
-1	
0	
1	
2	

11) $y = x - 5$

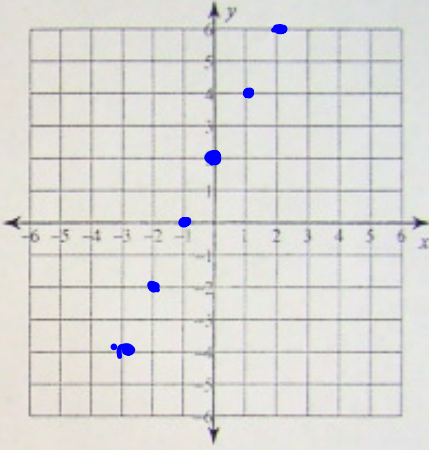
12) $y = x + 2$

11) $y = x - 5$



x	y
0	
1	
2	
3	
4	
5	

12) $y = 2x + 2$



x	y
-3	
-2	
-1	
0	
1	

$\frac{-2}{1}$ $\frac{2}{1}$