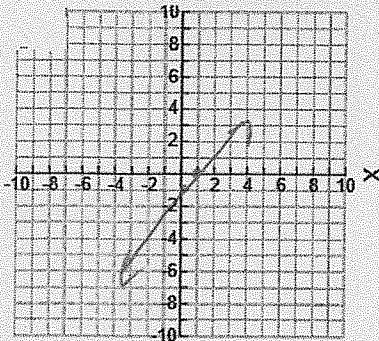


DAY 1 - Graphing Lines using Intercepts

This method is convenient when y is not isolated. Find the intercepts, record them as coordinate points. Plot them. Ensure to extend the line all the way to grid edges. Use a ruler when you can.

1.



$$x-1=y$$

$$\text{x-int: } y=0$$

$$x-1=0$$

$$x=1$$

$$(1, 0)$$

$$\text{y-int: } x=0$$

$$0-1=y$$

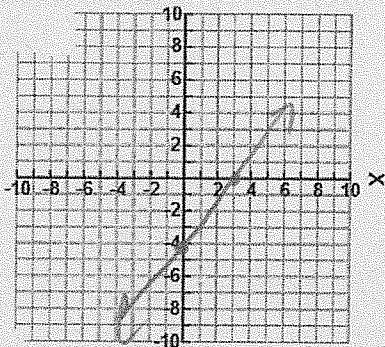
$$-1=y$$

$$(0, -1)$$

32

3

2.



$$4x-3y=12$$

$$\text{x-int}$$

$$4x-3(0)=12$$

$$4x=12$$

$$x=3$$

$$(3, 0)$$

$$\text{y-int}$$

$$4(0)-3y=12$$

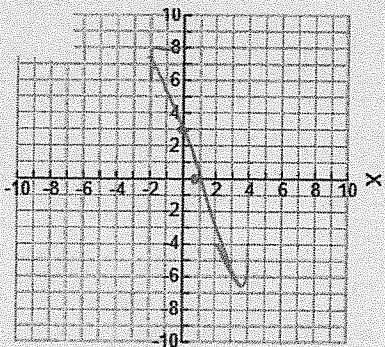
$$-3y=12$$

$$y=-4$$

$$(0, -4)$$

3

3.



$$7x+2y=6$$

$$\text{x-int}$$

$$7x+2(0)=6$$

$$7x=6$$

$$x=0.9$$

$$(0.9, 0)$$

$$\text{y-int}$$

$$7(0)+2y=6$$

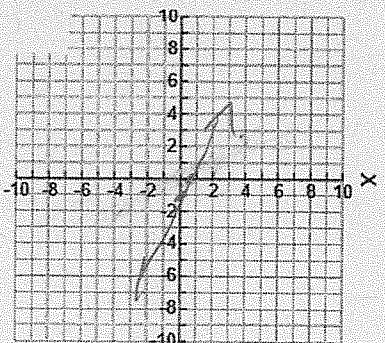
$$2y=6$$

$$y=3$$

$$(0, 3)$$

3

4.



$$2x-1=y$$

$$\text{x-int}$$

$$2x-1=0$$

$$2x=1$$

$$x=0.5$$

$$(0.5, 0)$$

$$\text{y-int}$$

$$2(0)-1=y$$

$$-1=y$$

$$(0, -1)$$

3

14

Graph Lines using Table of Values

1. Graph the following

a)

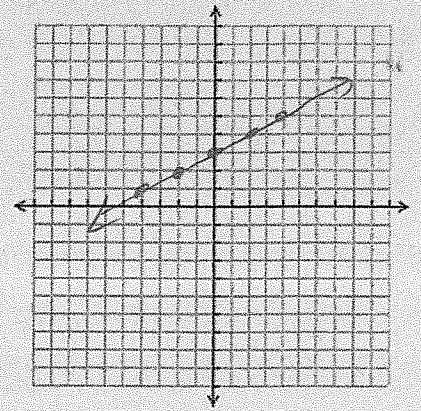
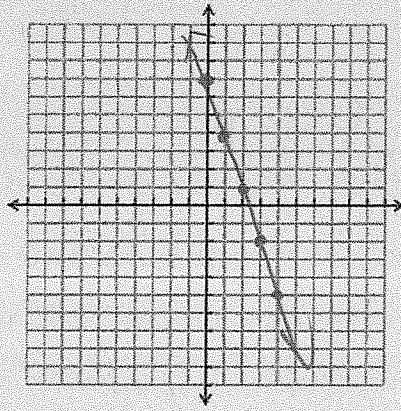
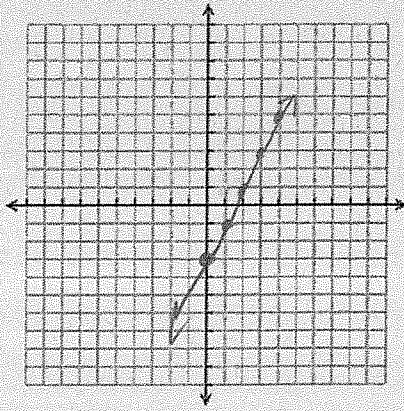
x	y
0	-3
1	-1
2	1
3	3
4	5

b)

x	y
0	7
1	4
2	1
3	-2
4	-5

c)

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



2. Graph the relation of each equation using table of values for $x = -2, -1, 0, 1, 2$

a) $y = 2x + 5$

b) $y = x + 3$

c) $y = 4x - 2$

a)

X	Y
-2	$2(-2) + 5 = -4 + 5 = 1$
-1	$2(-1) + 5 = -2 + 5 = 3$
0	$2(0) + 5 = 0 + 5 = 5$
1	$2(1) + 5 = 2 + 5 = 7$
2	$2(2) + 5 = 4 + 5 = 9$

b)

X	Y
-2	$-2 + 3 = 1$
-1	$-1 + 3 = 2$
0	$0 + 3 = 3$
1	$1 + 3 = 4$
2	$2 + 3 = 5$

c)

X	Y
-2	$4(-2) - 2 = -8 - 2 = -10$
-1	$4(-1) - 2 = -4 - 2 = -6$
0	$4(0) - 2 = 0 - 2 = -2$
1	$4(1) - 2 = 4 - 2 = 2$
2	$4(2) - 2 = 8 - 2 = 6$

