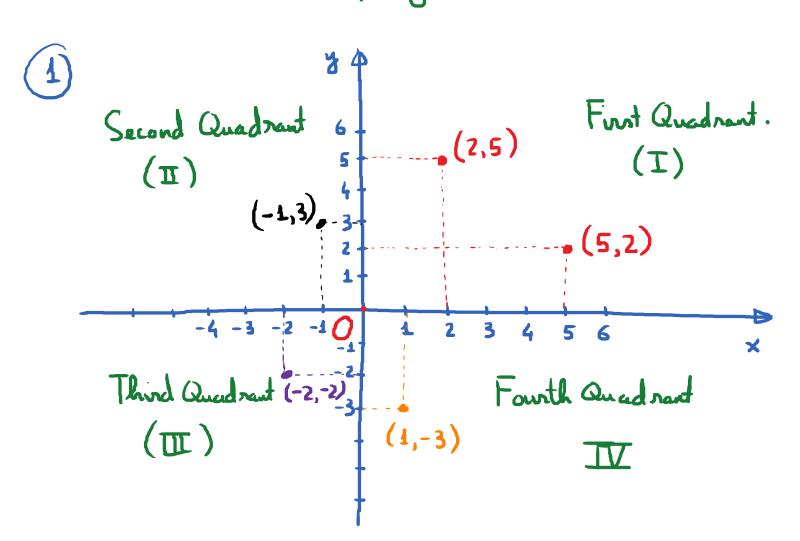
## 2. 1. Graphs of Equations Thursday, August 30, 2018 12:50 M Equations



- (2) Solutions of Equations
- 3) Graphing Linear Equations
- 4) Graphing Monlinear Equations



E.g. In which quadrant, if any, are the points (-3,-1);

(5),(-2); (6,0); (-1,4) located?

X-axis II

x-coordinate y-coordinate

2) Solutions of Equations:

 $E_{g}$  4x - 3y = 12

In (0,-4) a solution of this equation? YES

In (1,2) a solution of this equation? NO

\* Plug x=0 and y=-4 into the equation:

\* Plug x=1; y=2 into the equation:

$$\frac{4 \cdot 1 - 3 \cdot 2}{-2} \stackrel{?}{=} 12$$

(3) Graphs of linear Equations. Process for graphing linear equations.

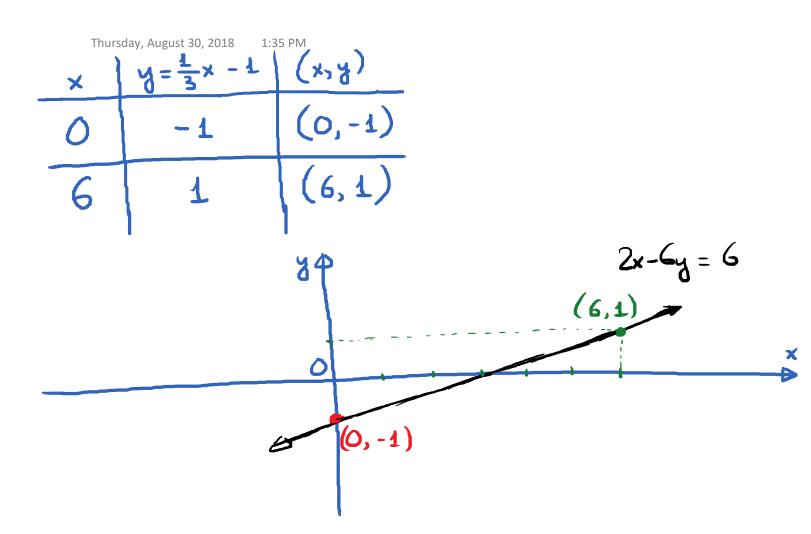
Step 1: Select a value for one variable and calculate the corresponding value of the other variable. Form an ordered pair that belongs to the line.

Step 2: Repeat Step 1 to obtain the second ordered pain.

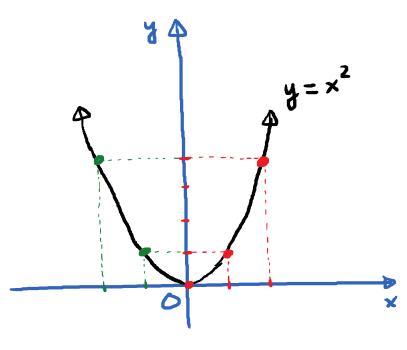
Step 2: Plot the ordered pairs and draw a straight line through them.

$$(0,-3)$$
 $(1,-5)$ 
 $y=-2x-3$ 

Inolate y: 
$$-6y = -2x + 6$$
$$-6$$
$$y = \frac{1}{3}x - 1$$

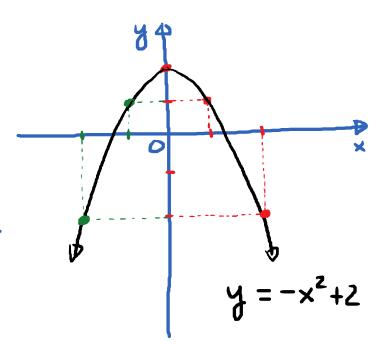


## (4) Basic Monlinear Equations

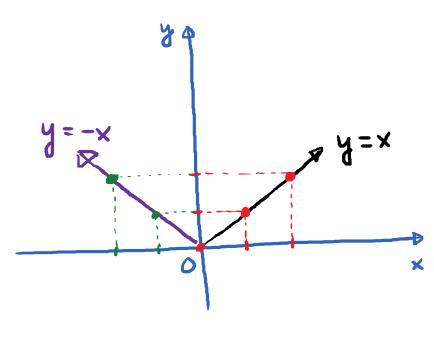


E.g.	y	=	- ×2	+	2
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<u> </u>						
	×	$y = -x^2 + 2$	(x,y)			
	-2	-2	(-2,-2)			
	-1	1	(-1,1)			
	0	2	(0,2)			
	1	1	(1,1)			
•	2	- 2	(2,-2)			



×	y =  x	(x,y)
-2	2	(-2,2)
-1	1	(-1,1)
0	0	(0,0)
1	1	(1,1)
2	2	(2,2)



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E.g.	Graph	y	=	-7	2	×	
				A			

J	1	
×	y = -2 x	(x,y)
-2	-4	(-2,-4)
-1	-2	(-1,-2)
0	0	(0,0)
1	-2	(1,-2)
2	-4	(2,-4)

