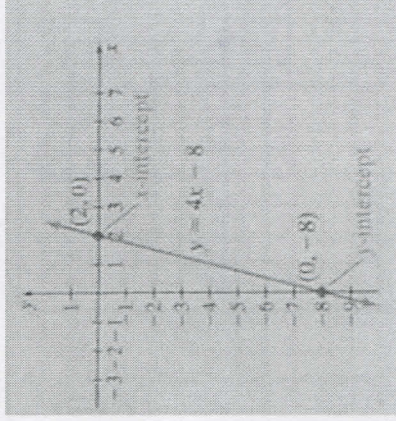
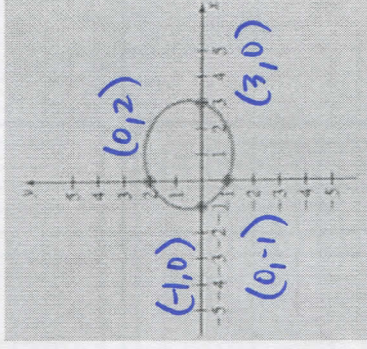
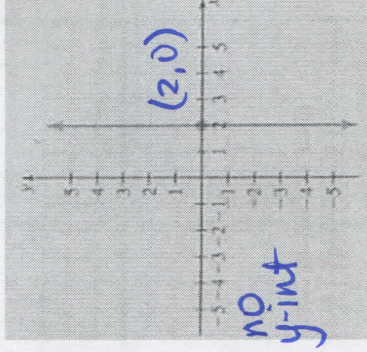
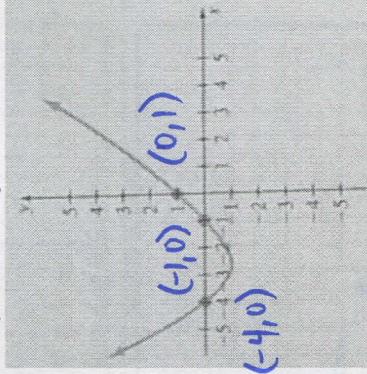
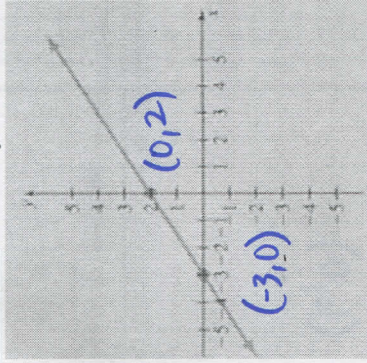


**OBJECTIVE 1: Identifying Intercepts**

- One way to graph equations is by their intercepts.
- Intercepts are the **POINT** where the graph crosses the axis.
- Intercepts are always in coordinate form.
- For the y-intercept,  $b$ , the  $x$  value is always  $0$ .
- For the x-intercept, the  $y$  value is always  $0$ .
- These two points create a line.



**TASK 1:** Identify the x- and y-intercept. Write your answer in coordinate form

**OBJECTIVE 2: Using Intercepts to Graph a Linear Equation**

Remember when finding an intercept, plug  $0$  into the other variable. Especially when the equation is in Standard form  $Ax + By = C$ .

**OBJECTIVE 3: Graphing Vertical & Horizontal Lines**

$x = c$  means  $c$  is a number and the line will be vertical and go through the  $x$ -axis at  $c$ .

$y = c$  means  $c$  is a number and the line will be horizontal and go through the  $y$ -axis at  $c$ .

**Task 2:** Graph by finding & plotting intercepts.

a)  $x - 3y = 6$

$0 - 3y = 6$

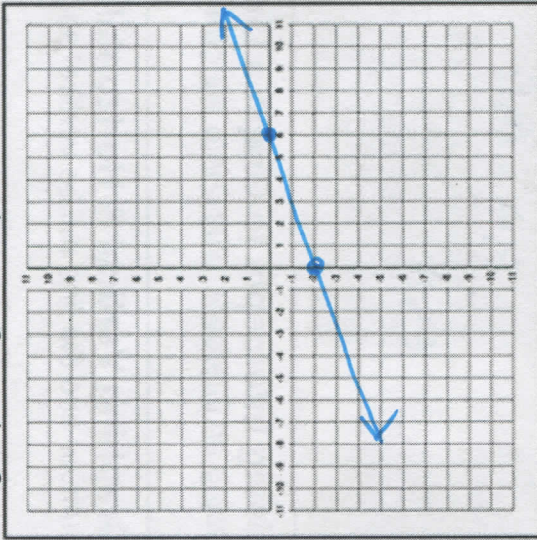
$y = -2$

$(0, -2)$

$x - 3(0) = 6$

$x = 6$

$(6, 0)$



b)  $x + 2y = -4$

$0 + 2y = -4$

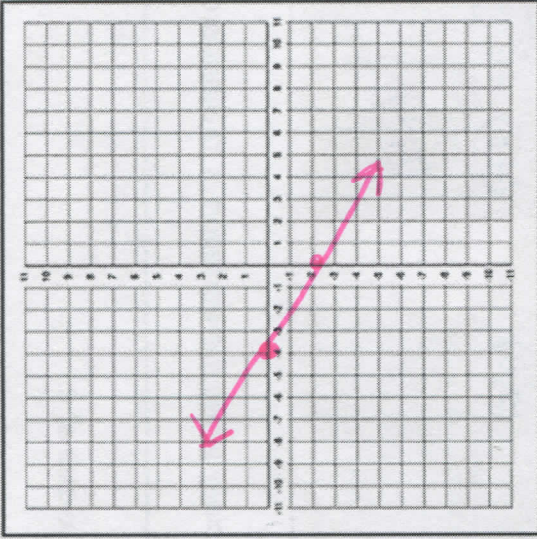
$y = -2$

$(0, -2)$

$x + 2(0) = -4$

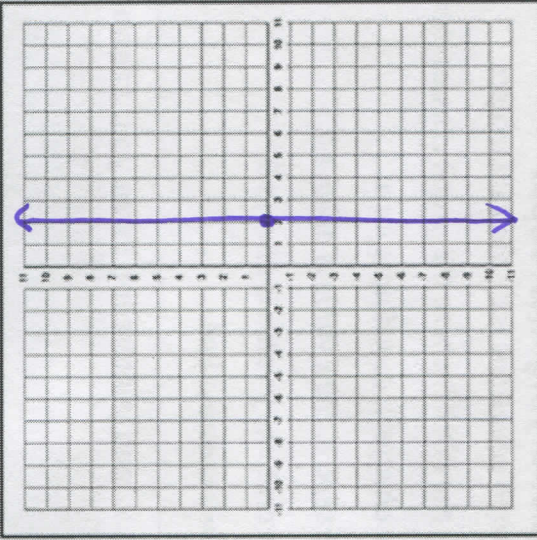
$x = -4$

$(-4, 0)$

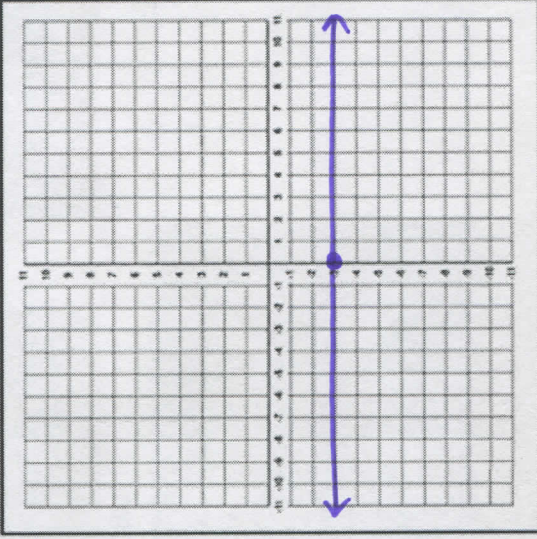


**Task 3:** Graph

a)  $x = 2$



b)  $y = -3$



Still need help with: