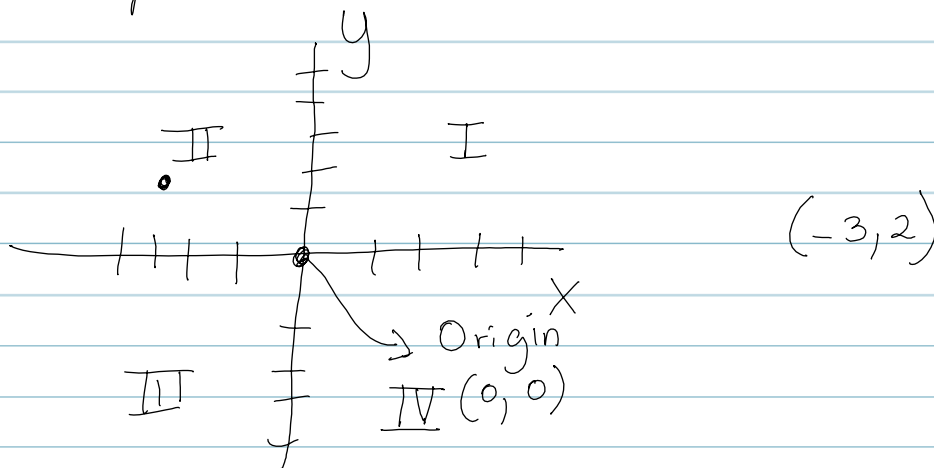


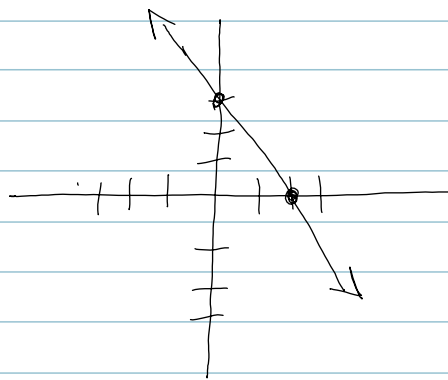
Sep 12, 2012

Chap 3.1



$$3x + 2y = 6$$

| x | y |
|---|---|
| 0 | 3 |
| 2 | 0 |

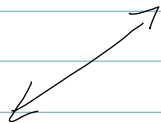


$3x + 2y = 6$  IS  $(-1, 4)$  a solution?  $\Rightarrow$  NO

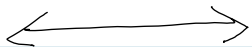
$$\begin{aligned} 3(-1) + 2(4) &= 6 \\ -3 + 8 &= 6 \\ 5 &= 6 \end{aligned}$$

(NO)

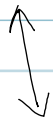
$$y = mx + b$$



$$y = c$$

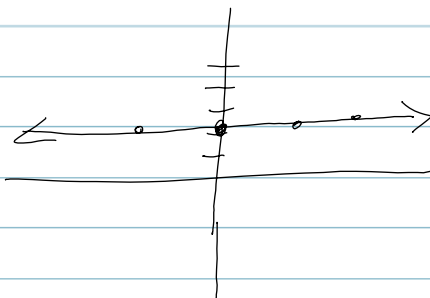


$$x = c$$

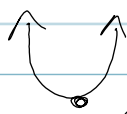


$$y = 2$$

| x         | y |
|-----------|---|
| 0         | 2 |
| 1         | 2 |
| 1,000,000 | 2 |

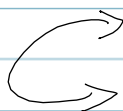


$$y = x^2$$



parabola  
(h, k)  
Vertex

$$x = y^2$$



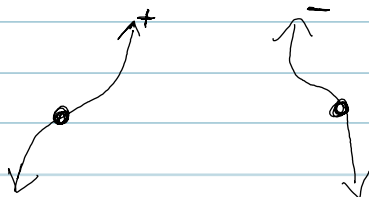
$$y = |x|$$

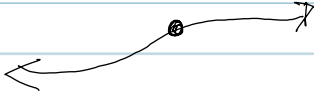


$$x = |y|$$



$$y = x^3$$



$$x = y^3$$


$$y = \sqrt{x}$$


equation

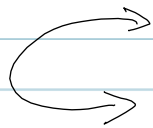
$$y = |x - 1| + 8$$

linear or not linear



$$x = y^2 + 3y - 1$$

linear or not linear



$$y = |x - h| + k$$
$$y = |x - 1| + 8$$

=        =

(1, 8) = base

$$V(1, 8)$$