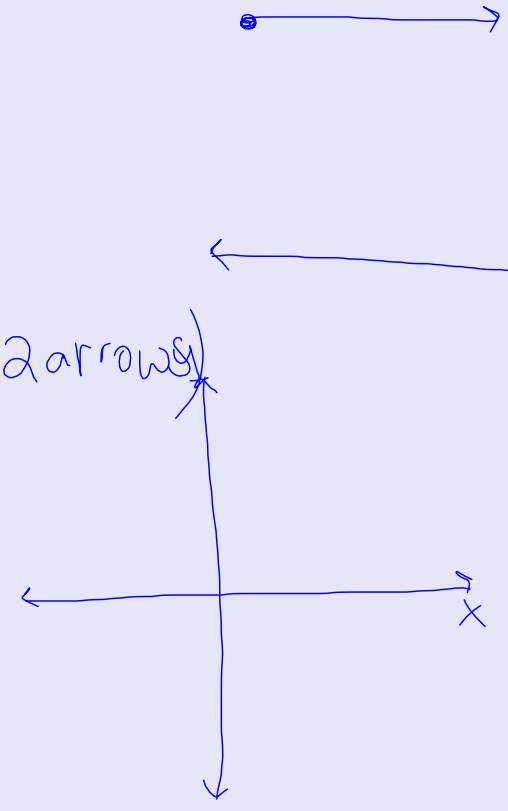
Grab a White Board, Marker, and Eraser for todays lesson

Write down everything you know about...

LINES

- lines are everywhere
- horizontal & vertical
- short or long
- straight
- parallel
- on graphs
- 2 points
- keep going (2 arrows)



4.3 Intro to Graphing Lines

What are the most common variables we use in math?

We are going to use those variables when we graph lines!

First we will start with y...

Lines in the form:

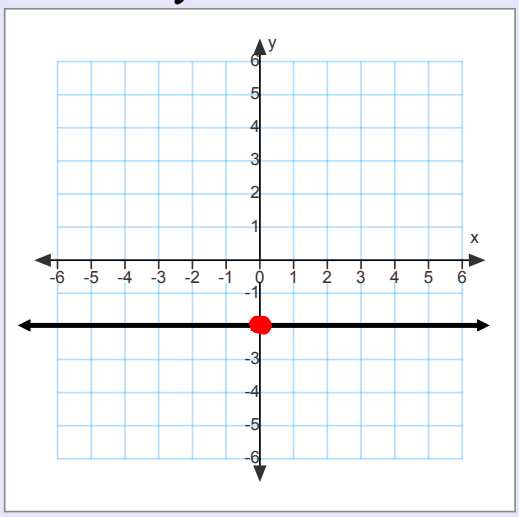
$$y = a$$

where a is any real number

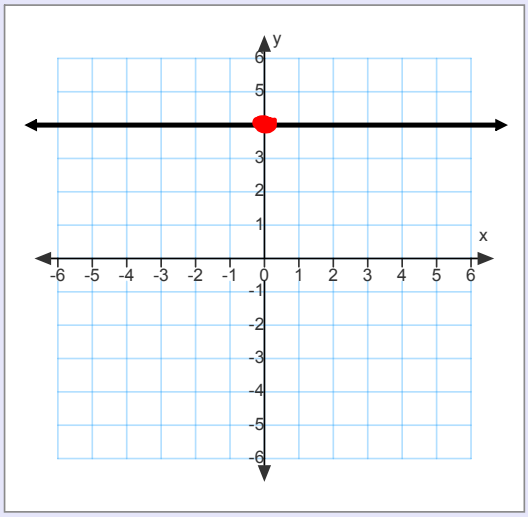
Will always be horizontal

Example Graphs

$y = -2$



$y = 4$



The letter in the function tells you what axis the graph will hit

Now onto x...

Lines in the form:

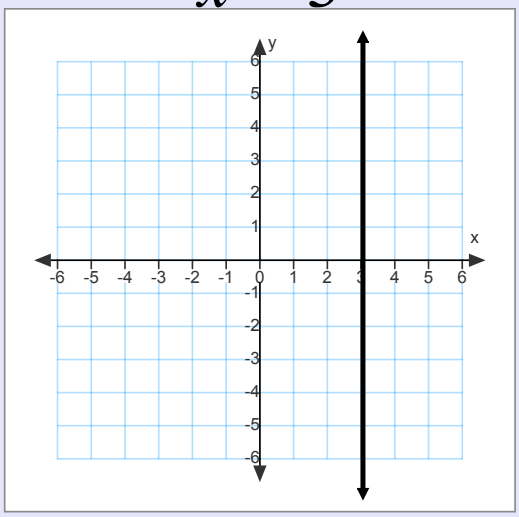
$$x = a$$

where a is any real number

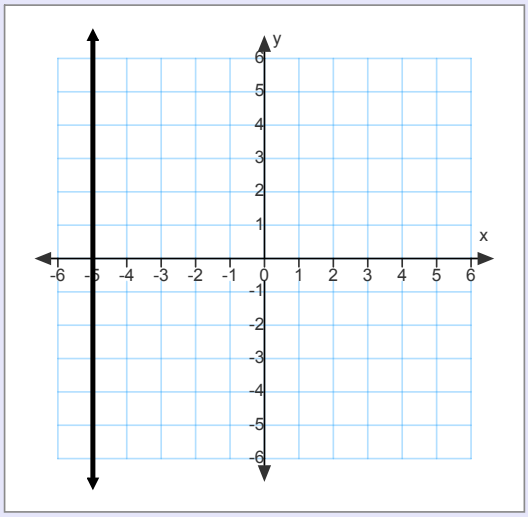
Will always be vertical

Example Graphs

$x = 3$



$x = -5$

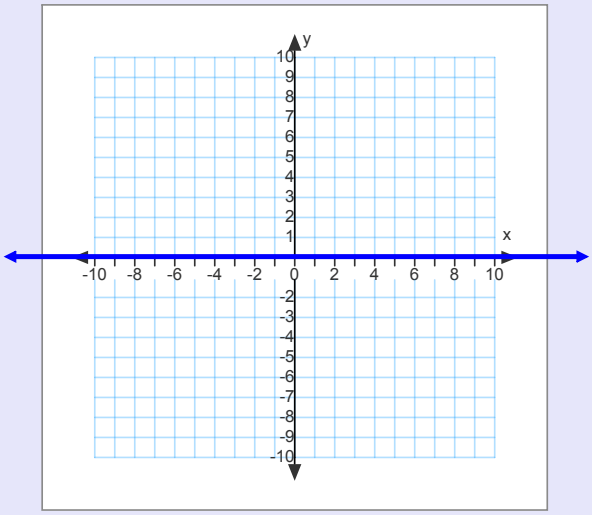


The letter in the function tells you what axis the graph will hit

Practice

$y = 5$
$x = 1$
$y = 8$
$x = 0$
$y = -6$
$x = -7$

$y = 1$
$x = 9$
$y = -1$
$y = 0$
$x = 4$
$x = -1$



Before you Leave...

$1. y = 2$	$4. y = 0$	$7. x = -2$
$2. x = 9$	$5. x = 0$	$8. y = 5$
$3. y = -2$	$6. x = 4$	$9. x = 2$