



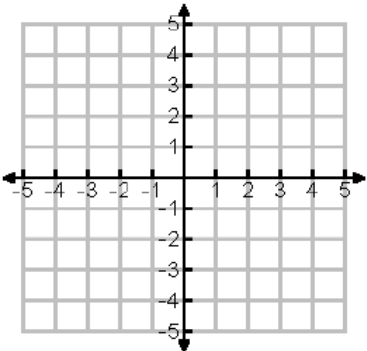
Let's figure out what makes two lines parallel.

Graph both of these on the same coordinate plane.

1. Line: $y = \frac{2}{3}x$
 m= _____ b= _____

x		y

Now that you have graphed them, are they parallel?



2. Line: $y = \frac{2}{3}x - 1$
 m= _____ b= _____

x		y



Do you notice anything that is the same in both equations?

3. If two lines are parallel, then their _____ is the same.

4. Draw lines to connect equations that are parallel to each other.

$y = 3x - 4$	$y = \frac{1}{3}x$
$y = \frac{1}{2}x + 2$	$y = 2x + 2$
$y = 2x - 4$	$y = 3x + 1$
$y = \frac{1}{3}x - 1$	$y = 5$
$x = -3$	$y = \frac{1}{2}x - 4$
$y = -1$	$x = 1$

5. Write the equation of the line that is parallel to $y = \frac{-1}{2}x + 3$ and passes through (2,0).