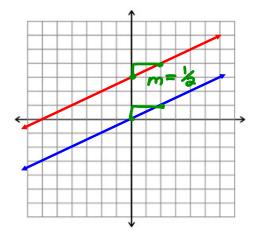
Parallel Lines

<u>Parallel lines</u> are 2 or more lines where the slopes are equal.



ex) Write an equation of a line // to $y = \frac{x}{3}x + 4$.

ex) Write the line // to $y = \frac{1}{2}x - 3$ that contains the point (-4, 5) in slope-intercept form. $m // = \frac{1}{2}$

- ex) Write the equation of the line in general form with the point (-1, 3) and // to 0 = 2x + y + 1.
 - x, y,

 1) Rearrange into y=mx+b form

$$-2 \times -1 = 9$$

- 2) Find // slope m//=-2
- 3) Plug into Point-slope form y-3=-2(X+1)
- 4) Rearrange back to general form

$$y-3 = -2x-2$$

 $2x+y-1=0$