Equations of Lines:

Slope-Intercept Form: $y = mx + b$

Standard Form:

Point-Slope Form: $y - y_1 = m(x - x_1)$

Horizontal Lines:

Vertical Lines:

Graphing Line that are in Slope-Intercept Form:

Graph each line using at least 3 points.

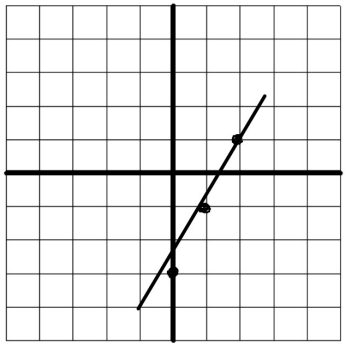
1. $y = 2x - 3$

2. $y = -3x + 1$

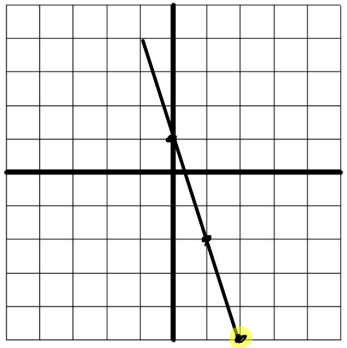
3. $y = -\frac{2}{5}x - 4$

4. $y = -x$

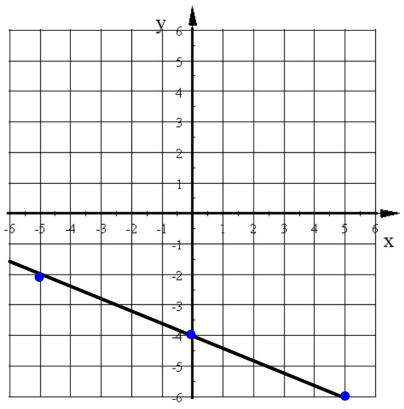
1. $y = 2x - 3$



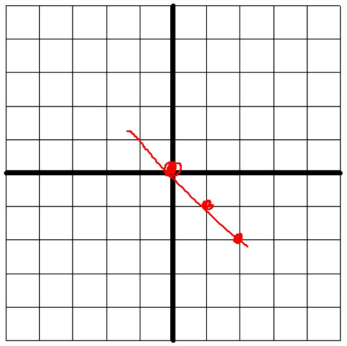
2. $y = -3x + 1$



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



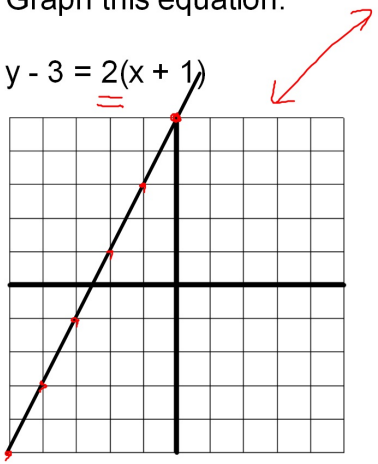
4. $y = -x$ = $\frac{-1}{1}x$



Graph this equation:

y - 3 = 2(x + 1)

=



$y-3 = 2x+2$

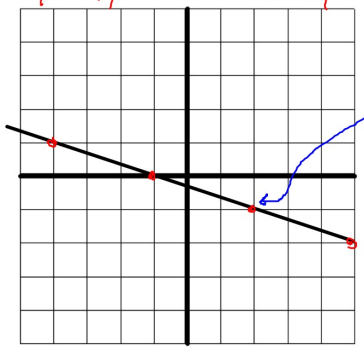
$y = \frac{2x+5}{1}$

$\frac{-2}{-1}$

Graph this equation:

$y + 1 = -\frac{1}{3}(x - 2)$

$y - -y_1$ $\quad x - x_1$



point $(2, -1)$ Plot this point

$m = -\frac{1}{3}$

Find other points using this slope