Example: $y=-\frac{2}{3} x+4$
Step 1: Plot the $y$-intercept (in this case $(0,4)$ )

Step 2: Use the slope to find the next point on the line from the y -intercept. Remember slope $=\frac{\Delta y}{\Delta x}$ (in this case $\frac{\Delta y}{\Delta x}=\frac{-2}{3}$ which means down 2 and 3 to the right.)

Step 3: Draw a line through both points
 with a ruler. Don't forget arrows!

Practice Graphing:

$$
y=\frac{3}{2} x-2
$$

$$
y=-3 x+4
$$




## How to Graph an Equation in Standard Form

Example: $5 x+2 y=-10$
Step 1: Find the $y$-intercept by $5 x+2 y=-10$ substituting zero in for $x \quad 5(0)+2 y=-10$ and solving for y . (in this case ( $0,-5$ ))

Step 3: Draw a line through both points with a ruler. Don't forget arrows!


## Practice Graphing:

$$
3 x-2 y=6
$$

$$
3 x+6 y=12
$$




