Placing the variables on the same side of an equation, we get the
General Form of an Equation of a Line

$$
A x+B y=C
$$

We noticed, very importantly, the $y$-intercept occurs when $x=0$. Looking at the previous graphs, notice the $x$-intercept occurs when $y=0$.

Those two pieces of information make graphing linear equations very easy!
Graphing the General Form of the Equation of a Line - By Inspection
The Cover-Up Method

1. Find x -intercept, let $\mathrm{y}=0$
2. Find $y$-intercept, let $x=0$
3. Draw line to connect points

## Example Graph $2 x+3 y=6$

| When $y=0, \quad 2 x=6$ | therefore the $x$-int. $=3$ |
| :--- | :--- |
| When $x=0, \quad 3 y=6$, | therefore $y$-int. $=2$ |

Plot $(3,0)$ and $(0,2)$ and you're done. That beats solving for $y$ and plugging in values for $x$.


## Example $\quad$ Graph $3 x-4 y=12$

