## UNIT 4: CRAPHINC USINC INTTERCEPTS

## Stenderd Form

Graphing L ines, $A x+B y=C$ with $\times$ and $y$ intercepts

I can graph lines in $A x+B y=C$ form sting the $x$ and rimtercepth.
quations that are written in $A x+B y=C$ form are easier to graph using the $x$-intercept and $y$-intercepts. Beforo we ugin, ler's see what standard form looks like.


Now lets review what the term intercepts means. An intercept is where your line crosses an axis We have anxintercept!
 and ay intercept

The point where the line touches the xixis is called the X intercept

The point where the Ine touches the $y$ axis $y$ is called the $y$ intercopt .


When equations are written in standart form, 4 is pretty easy to find the intercepts Take a look at this dagram, as 4 w il help you to understand the process



## A STRATEGY - to make it even easier!

Look at the equation in problem 1:


Now you have two points, $(0,-6)$ and $(-6,0)$. Graph and connect them to see the line they create.
You can use this method even if $x$ or $y$ is multiplied by a number... because any number times zero equals ZERO! That's what the finger tips in problem 2 above are showing!

