# INEQUALITIES: STANDARD -> SLOPE-INTERCEPT <br> $\mathbf{A x}+\mathbf{B y}<\mathbf{C} \quad->\quad \mathbf{y}<\mathbf{m x}+\mathbf{b}$ 

1. GET "Y" BY ITSELF

## 2. WATCH OUT FOR NEGATIVES

## EXAMPLE:

WOULD THESE TWO BE THE SAME?

$$
\begin{aligned}
& 2 x-y \leq 1 \quad \& \quad y \leq 2 x-1 \\
& -2 x \quad-2 x \quad \text { They } \\
& \frac{1}{-1} \leq \frac{-2 x+1}{-1} \quad \text { Are Not } \\
& y y \geq 2 x-1 \text { The }
\end{aligned}
$$

When graphing linear inequalities recall.
> Draw a dashed line, and shade the area above the line. < Draw a asheq line, and shade the area $\frac{b e r o w}{r e}$ the line. $\geqq$ Draw a
 line, and shade the area ClO ove the line.
Draw a SClid line, and shade the area below the line.

## EXAMPLE:

 GRAPH$2 \mathrm{x}+4 \mathrm{y}<8$ $-2 x \quad-2 x$
$\frac{4 y}{4}<\frac{-2 x}{4}$
$y<-\frac{1}{2} x+2$ POINT IN SOLUTION SET:

