## 5-3: Graphing Linear Inequalities

## Objectives: I can graph a linear inequality

Vocab: Inequality, solution set

$$
\begin{aligned}
& <\text { REVIEW: > } \\
& \leq \\
& \geq \\
& \text { Graph the inequalities on a number line } \\
& x<5
\end{aligned}
$$

$$
\begin{aligned}
& x \geq-2 \\
& \text { 4!! anmunneurt } \\
& x \leq 0 \\
& \text { Rontrumanul!!!!! } \\
& x>-4 \\
& \text { !ompurnormornand }
\end{aligned}
$$




Graphing Linear Inequalities:

$$
\begin{array}{lc}
y=m x+b & \text { y-int, slope } \\
<,> & \text { dotted line } \\
\leq, \geq & \text { solid line } \\
\text { shading } & \text { y-axs } \left.\begin{array}{ll}
\text { y-value on each side } \\
& \text { of line to determine } \\
& \text { Shading }
\end{array}\right) .
\end{array}
$$




## Graph the linear inequality: $(95 y) x+3$ <br> 

Is $(-2,4)$ in the solution set? $N O$
Is $(3,1)$ in the solution set? YeS

