## Linear Inequalities

Graph the solution set of the linear inequalities:
Steps:

1. Solve for $y$. Identify the slope and $y$-intercept.
2. Graph the line by plotting the $y$-intercept first (on the $y$-axis) and then use the slope to get other points, $\left(\frac{\text { rise }}{\text { run }}\right)$.
3. Use a solid line if you have $\leq$ or $\geq$.

Use a dashed or dotted line if you have $<$ or $>$.
3. Look at the $y$-intercept. Shade below the $y$-intercept if less than.

Shade above the $y$-intercept if greater than.


Ex. \#4: $\quad x>-2$


Ex. \#5: $\quad y \leq 4$


