## 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,  $\left(\frac{rise}{run}\right)$ .
  - 2. Use a solid line if you have ≤ or ≥.

    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.





