$$y < -\frac{5}{2}x + 3$$

Step 1: graph the boundary line - is it solid ($\geq$ or $\leq$) or dashed? ($<$ or $>$)

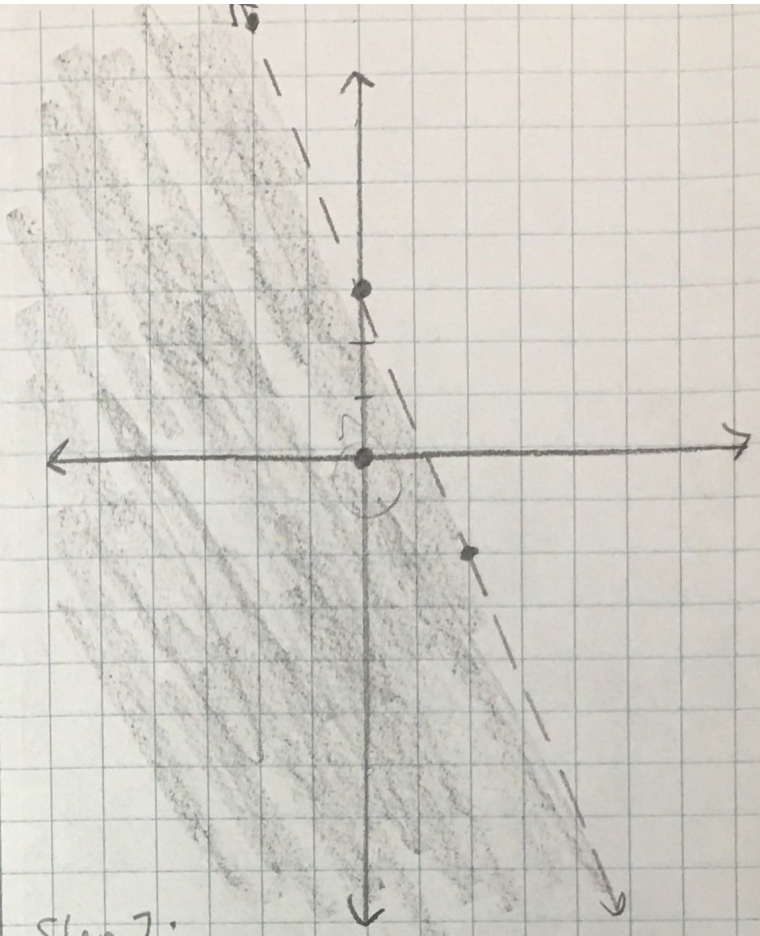
Step 2: test a point! I like (0,0). As long as the line does not go through the origin!

Step 3:

If you get a true inequality ($0 < 3$, $5 \geq -6$ etc) that point is a solution and you shade that region.

If you get a false inequality, ($0 > 3$, $5 \leq -6$) that point is not a solution!

Shade the opposite side of the line.



Step 1:

$b = 3$ plot!

$m = \frac{-5}{2} = \frac{\text{rise}}{\text{run}}$ Use slope to find 3 other points

Step 2:

(0,0) $y < -\frac{5}{2}x + 3$

$0 < -\frac{5}{2}(0) + 3$

$0 < 3$ true!

(0,0) is a solution

Step 3:

Shade the side that includes (0,0).