

Linear Inequalities

WOLFF

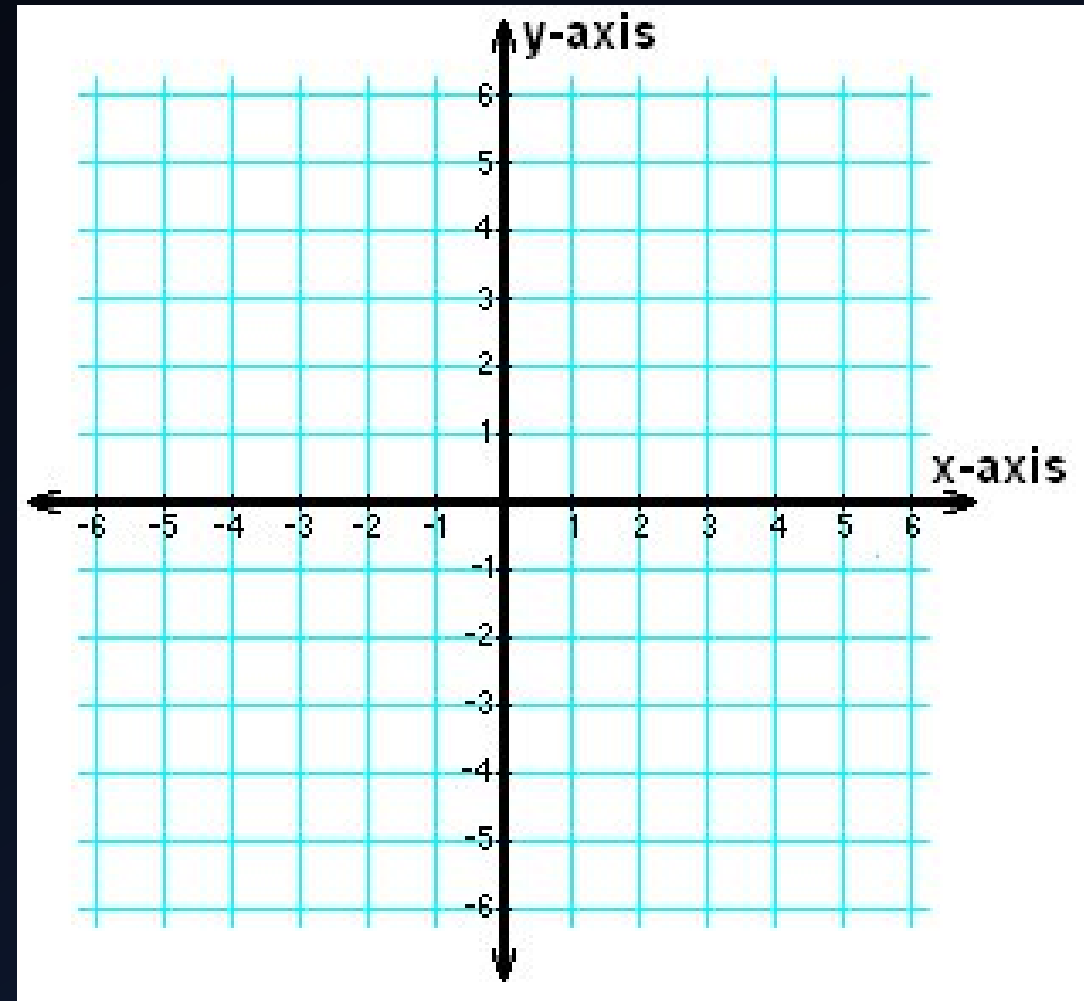
ALGEBRA 1H

What's to remember?

- Identify or get the inequality in slope-intercept, point-slope, or standard form
 - If standard form, calculate the intercepts
- Plot points on the graph
- $>$ or $<$ calls for a dashed line
- \geq or \leq calls for a solid line
- Shade above or below the line
 - Use y-intercept as a guide
 - You might have to convert standard form to be sure 🌴

Let's start easy 🏖️ with slope-intercept

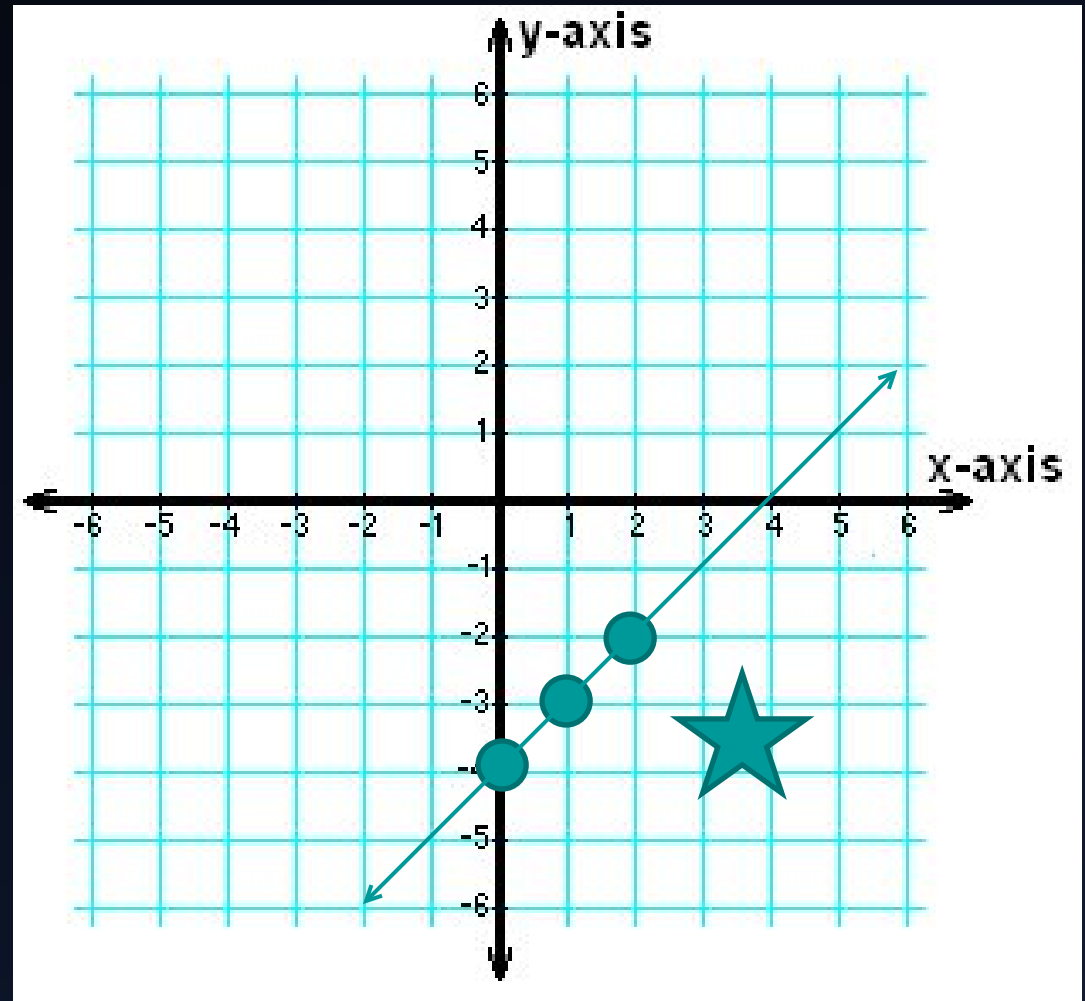
$$y \leq x - 4$$



How'd you do?

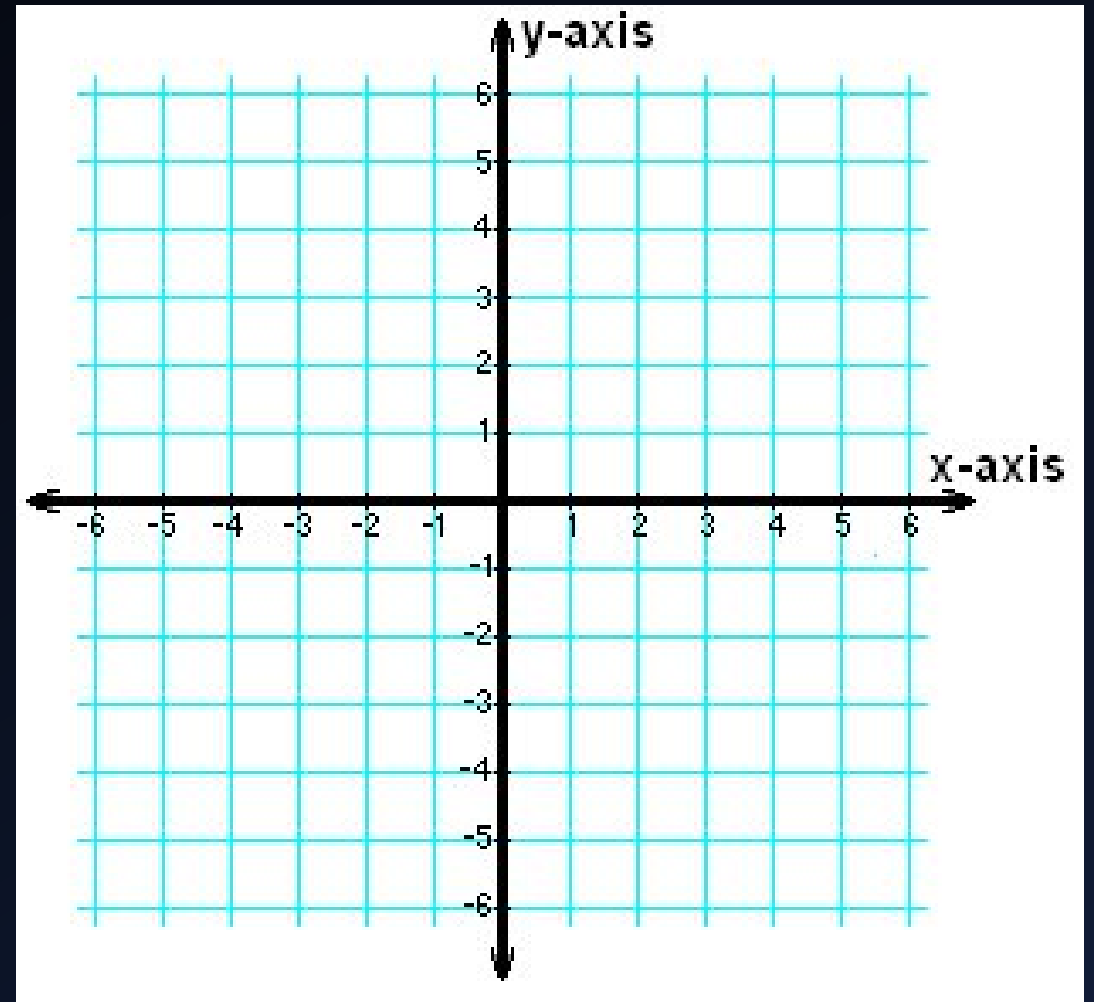
$$y \leq x - 4$$

★ = shaded area



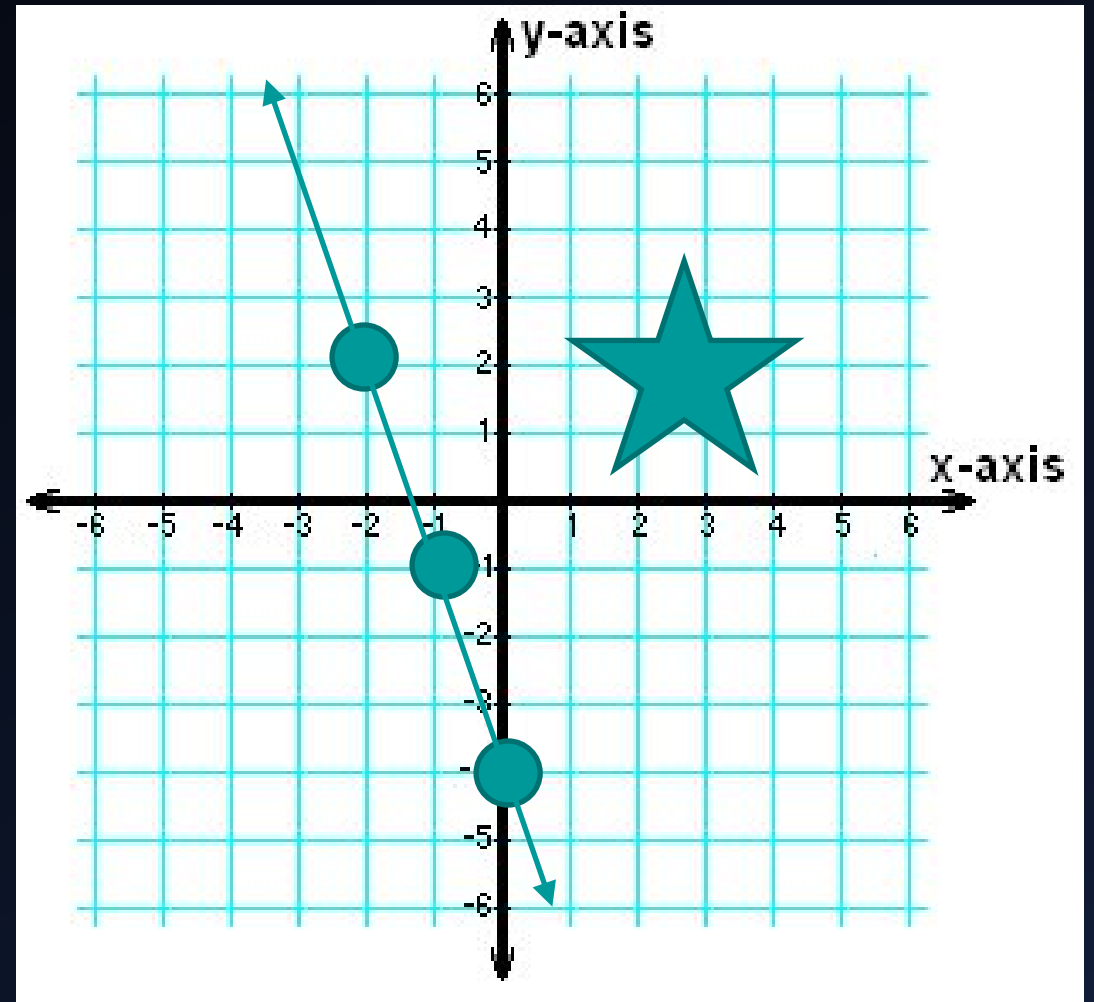
Point-Slope

$$y - 2 \geq -3(x + 2)$$



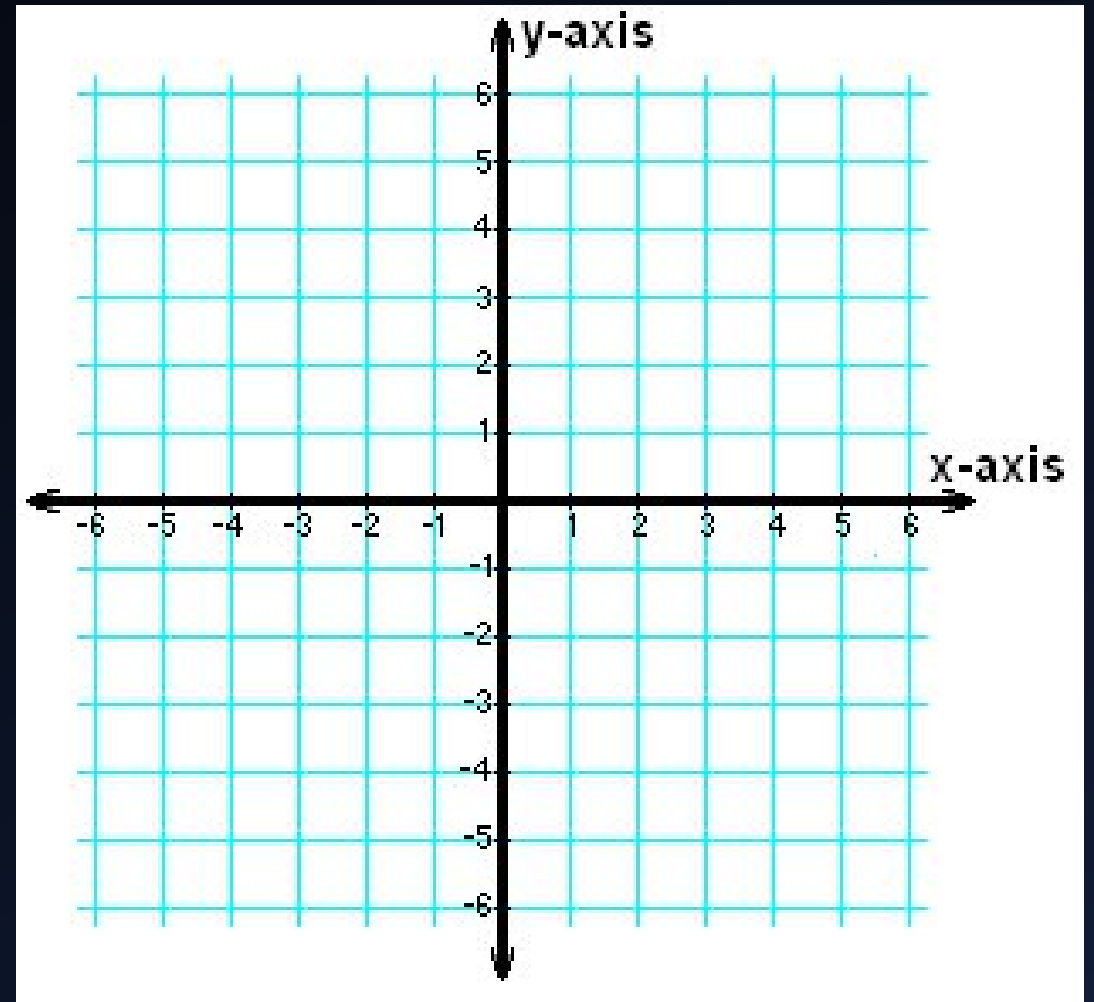
How did you do?

$$y - 2 \geq -3(x + 2)$$



Standard Form

$$2x - 4y > 6$$

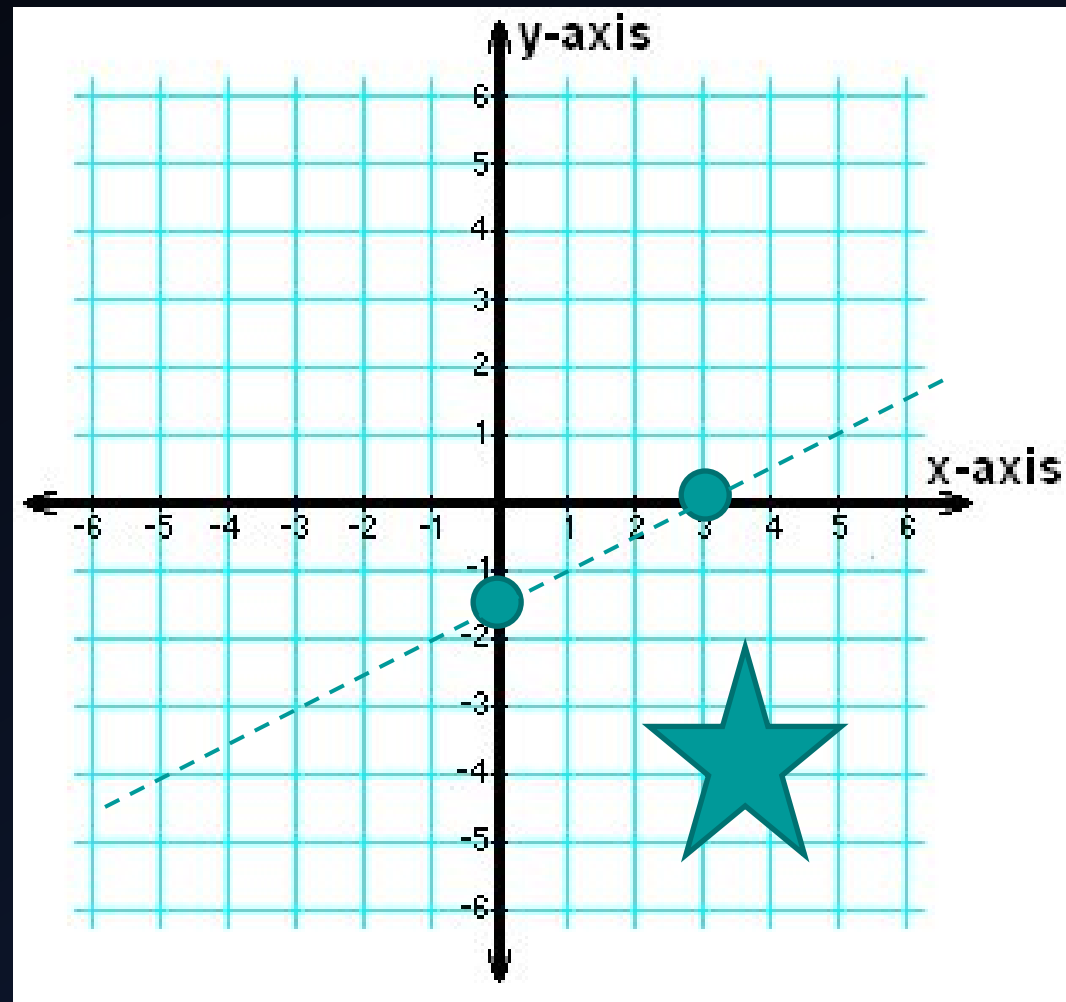


How did you do?

$$2x - 4y > 6$$

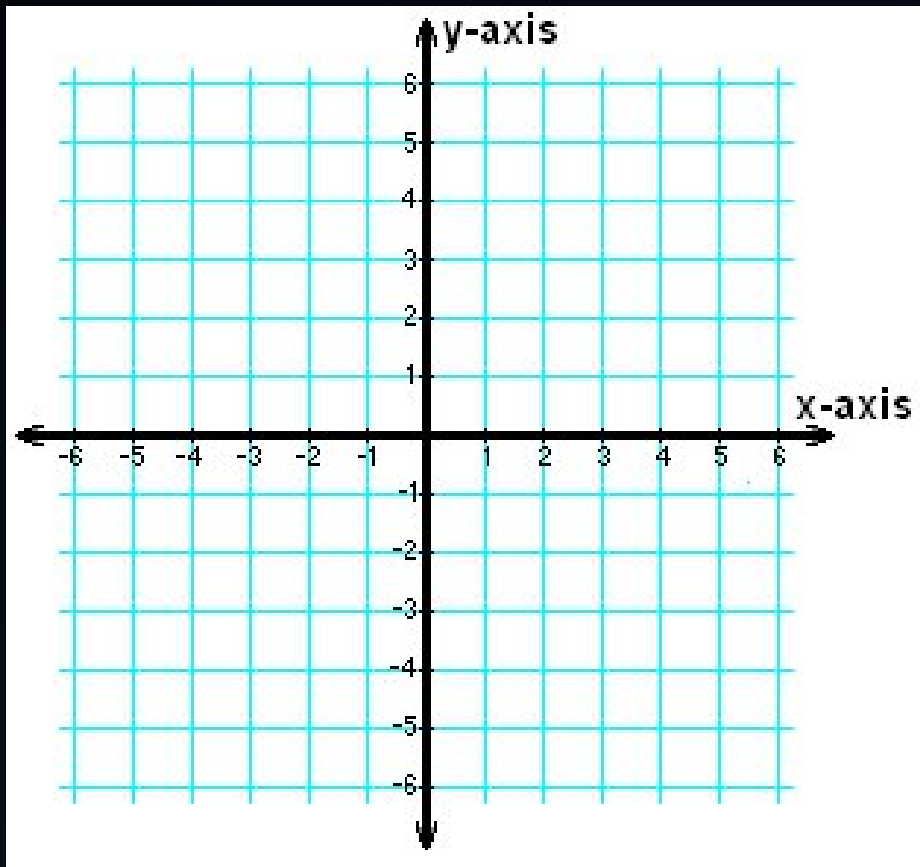
The catch!

$$y < \frac{1}{2}x - 1.5$$

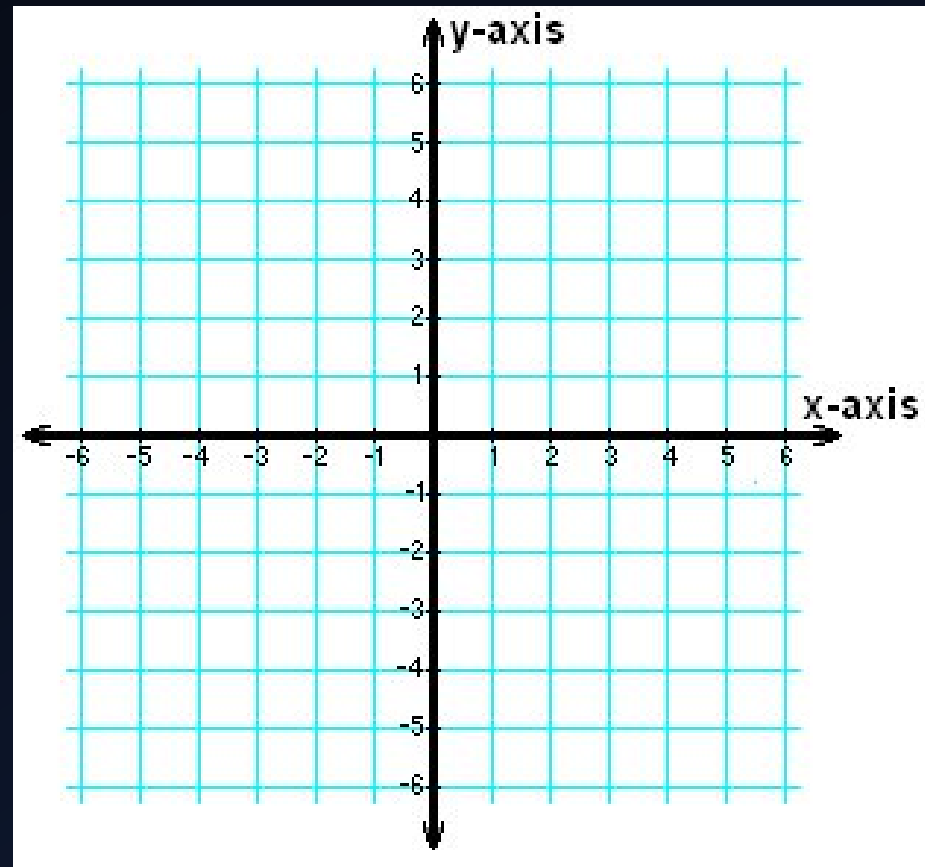


Don't forget the basics!

$$y < 3$$

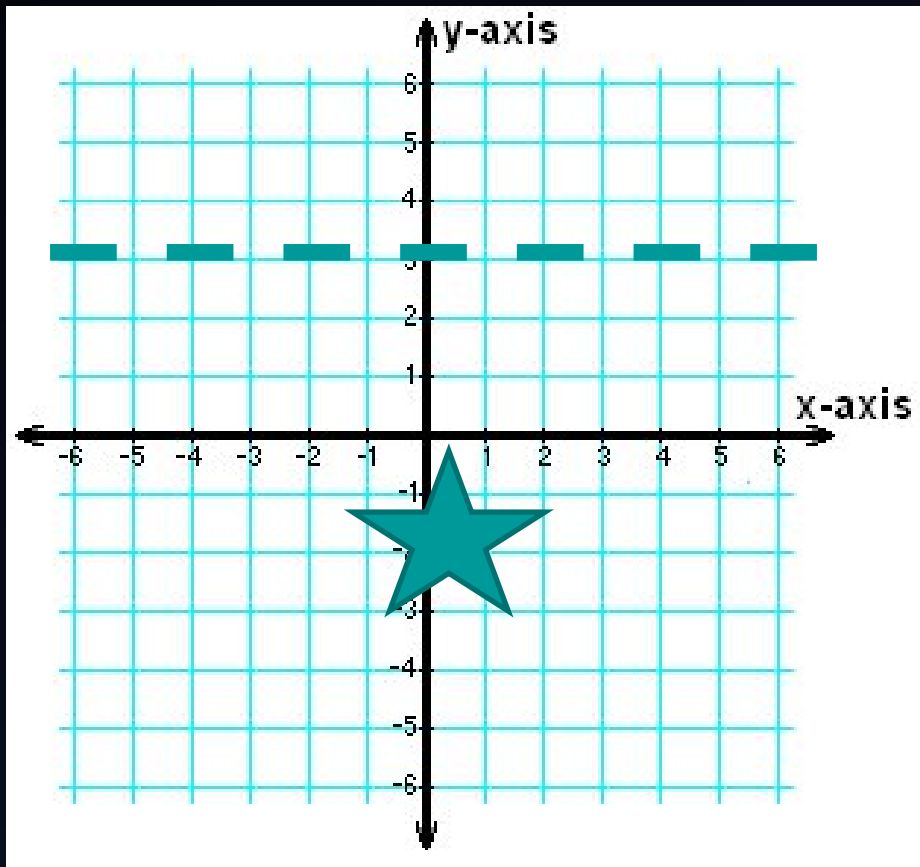


$$x \geq -4$$



Don't forget the basics!

$$y < 3$$



$$x \geq -4$$

