

2-3

Lesson ~~2-2~~ → Inequalities with Negative Coefficients

The sign turns around when you divide by a negative

$$-2x + 3 \geq -7$$

$$\quad \quad -3 \quad \quad -3$$

$$-2x \geq -10$$

$$\quad \quad \underline{-2} \quad \quad \underline{-2}$$

$$x \leq 5$$

Let's check with 0 → 0 should work

$$-2(0) + 3 \geq -7$$

$$3 \geq -7$$

Yes! 0 works!

We know Sign is pointing in the correct direction!