

Topic: solving inequalities

When solving inequalities, the same basics apply, except when multiplying or dividing both sides by a negative number

(ex)

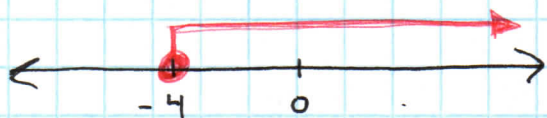
$$3x + 5 \geq -7$$

subtract 5

$$3x \geq -12$$

divide by 3

$$x \geq -4$$



(ex)

$$4 - \frac{2}{3}x > 30$$

$$\left(-\frac{3}{2}\right) - \frac{2}{3}x > \frac{26}{1} \left(-\frac{3}{2}\right)$$

$$x < -39$$

* multiplied both sides by a negative
↳ we need to switch the sign

