

Ex 2: Checking for Solutions if TRUE

Is -4 a solution to the following inequalities:

a)  $x+8 < -3$

$$\underline{-4 + 8} < -3$$

$$4 < -3$$

False, not a solution

b)  $-4.5x > -21$

$$-4.5(-4) > -21$$

$$18 > -21$$

True, it is a solution

Try! Is -6 a solution to...

3)  $c+4 < -1$

4)  $10 \leq 3-m$

5)  $21 \div x \geq -3.5$

6)  $4x-25 > -2$

Ex 3: Graphing Inequalities

a)

b)

c)

Try!

7)  $1.5 > g$

8)  $r < 0.5$

$$\begin{aligned}
 & 3) c + 4 < -1 \\
 & -6 + 4 < -1 \\
 & -2 < -1
 \end{aligned}$$

TRUE

Fabio

$$\begin{aligned}
 & 5) 21 \div x \geq -3.5 \\
 & 21 \div -6 \geq -3.5 \\
 & -3.5 \geq -3.5 \\
 & \text{True}
 \end{aligned}$$

$$\begin{aligned}
 & 4) 10 \leq 3 - m \\
 & 10 \leq 3 - 6 \\
 & 10 \leq 9 \\
 & \text{False}
 \end{aligned}$$

Anna

$$\begin{aligned}
 & 6) 4x - 25 > -2 \\
 & 4(-6) - 25 > -2 \\
 & -49 > -2 \\
 & \text{false}
 \end{aligned}$$