

Correção Lareira 19-03-2020
Primeira Série

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(38) $|x+2| \leq 2x+5$

$$x+2 \leq 2x+5$$

$$x-2x \leq 5-2$$

$$-x \leq 3$$

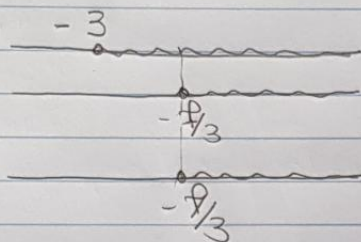
$$\boxed{x \geq -3}$$

$$x+2 \geq -2x-5$$

$$x+2x \geq -5-2$$

$$3x \geq -7$$

$$\boxed{x \geq -\frac{7}{3}}$$



$$S = \{x \in \mathbb{R} \mid x \geq -\frac{7}{3}\}$$

(39) $|3x+10| = |5x+2|$

$$3x+10 = 5x+2$$

$$3x-5x = 2-10$$

$$-2x = -8$$

$$\boxed{x_1 = 4}$$

$$3x+10 = -5x-2$$

$$3x+5x = -2-10$$

$$8x = -12$$

$$\boxed{x_2 = -\frac{3}{2}}$$

$$\left| 4 - \left(-\frac{3}{2}\right) \right| = \left| 4 + \frac{3}{2} \right| = \left| \frac{11}{2} \right| = \frac{11}{2}$$

(40) $\left| \frac{\ln - 153}{22} \right| \leq 1 \quad -1 \leq \frac{\ln - 153}{22} \leq 1$

$$22 \cdot (-1) \leq \ln - 153 \leq 1 \cdot 22$$

$$-22 \leq \ln - 153 \leq 22$$

$$+153 - 22 \leq \ln \leq 22 + 153$$

$$131 \leq \ln \leq 175$$

altura máxima
1,75 m