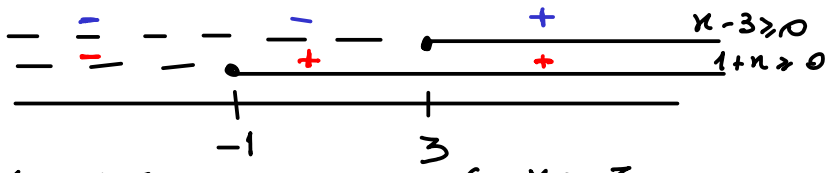
$|x-3| + 2\cdot|1+x| > -1$

NOTA: la soluzione è immediata ma viene svolta per illustrare il metodo.

- $x-3 \geq 0 \longrightarrow x \geq 3$
- $1+x \geq 0 \longrightarrow x \geq -1$

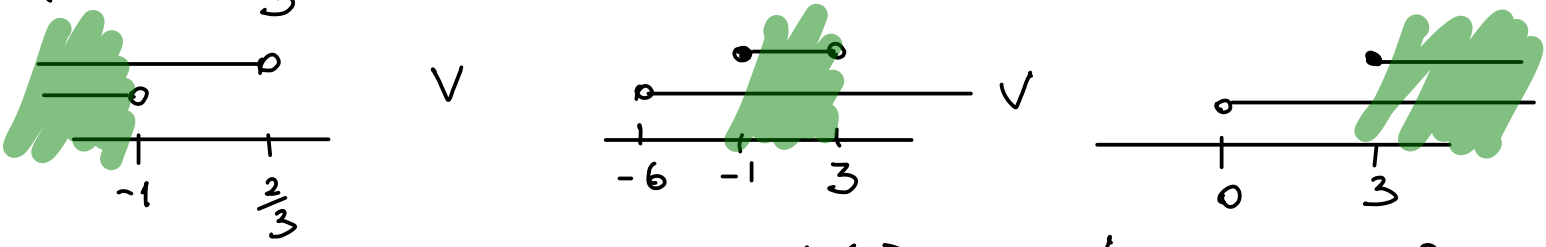


$$\begin{cases} x < -1 \\ -x+3-2(1+x) > -1 \end{cases} \vee \begin{cases} -1 \leq x < 3 \\ -x+3+2(1+x) > -1 \end{cases} \vee \begin{cases} x \geq 3 \\ x-3+2(1+x) > -1 \end{cases}$$

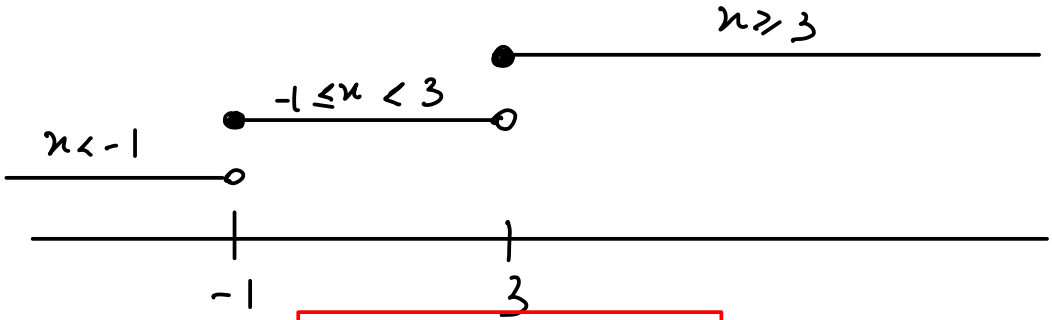
$$\begin{cases} x < -1 \\ -x-2x > -3+2-1 \end{cases} \vee \begin{cases} -1 \leq x < 3 \\ -x+2x > -3-2-1 \end{cases} \vee \begin{cases} x \geq 3 \\ x+2x > 3-2-1 \end{cases}$$

$$\begin{cases} x < -1 \\ -3x > -2 \end{cases} \vee \begin{cases} -1 \leq x < 3 \\ x > -6 \end{cases} \vee \begin{cases} x \geq 3 \\ 3x > 0 \end{cases}$$

$$\begin{cases} x < -1 \\ x < \frac{2}{3} \end{cases} \vee \begin{cases} -1 \leq x < 3 \\ x > -6 \end{cases} \vee \begin{cases} x \geq 3 \\ x > 0 \end{cases}$$



$x < -1 \quad \vee \quad -1 \leq x < 3 \quad \vee \quad x \geq 3$



$\forall x \in \mathbb{R}$