

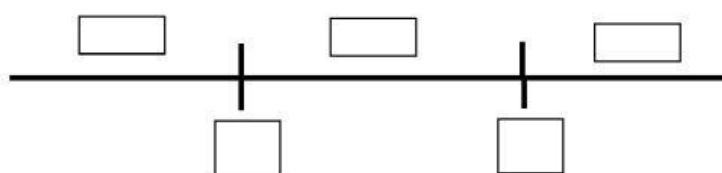
INECUACIONES DE GRADO MAYOR QUE UNO

1. Resuelve las siguientes inecuaciones:

a) $x^2 - 2x - 8 > 0$

$$x^2 - 2x - 8 = 0 \rightarrow x = \boxed{} \quad x = \boxed{}$$

Signo



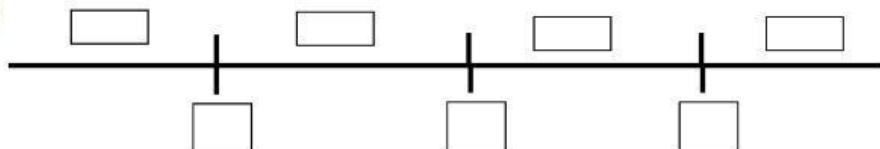
Solución: $x \in \boxed{}$

b) $x^3 - 12x^2 + 32x > 0$

$$x^3 - 12x^2 + 32x = 0 \rightarrow x(\boxed{}) = 0$$

$$\rightarrow \begin{cases} x = \boxed{} \\ x = \boxed{} \\ x = \boxed{} \end{cases}$$

Signo



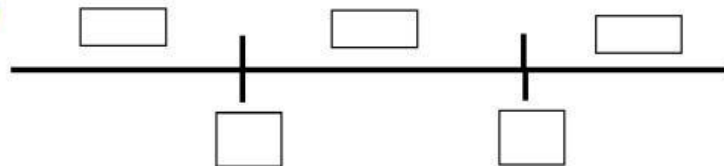
Solución: $x \in \boxed{}$

c) $\frac{x+5}{x-5} \leq 0$

$x + 5 = 0 \rightarrow x = \boxed{}$

$x - 5 = 0 \rightarrow x = \boxed{}$

Signo



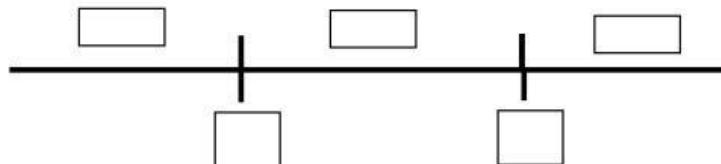
Solución: $x \in \boxed{}$

2. Resuelve las siguientes inecuaciones:

a) $x^2 + 3x \leq 0$

$x^2 + 3x = 0 \rightarrow x = \boxed{} \quad x = \boxed{}$

Signo

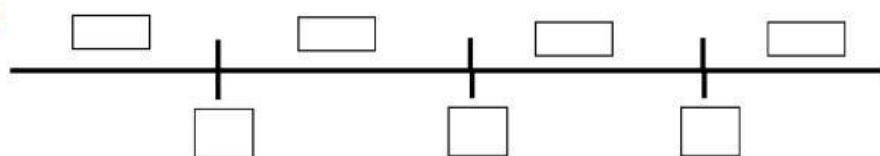


Solución: $x \in \boxed{}$

b) $x^3 - 4x^2 - 21x \geq 0$

$$x^3 - 4x^2 - 21x = 0 \rightarrow x = \boxed{} \quad x = \boxed{} \quad x = \boxed{}$$

Signo

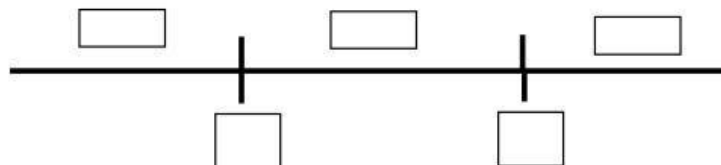


Solución: $x \in \boxed{}$

c) $\frac{x+7}{x-3} \geq 0$

$$x + 7 = 0 \rightarrow x = \boxed{} \quad x - 3 = 0 \rightarrow x = \boxed{}$$

Signo



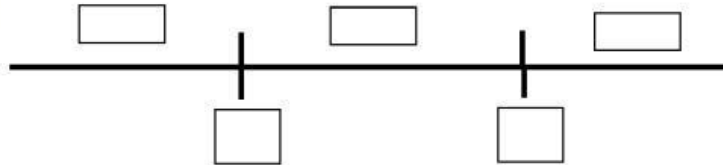
Solución: $x \in \boxed{}$

3. Resuelve las siguientes inecuaciones:

a) $-x^2 + 4x > 2x - 3$

$$-x^2 + 2x + 3 = 0 \rightarrow x = \boxed{} \text{ y } x = \boxed{}$$

Signo



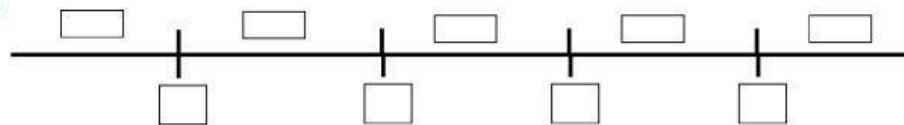
Solución: $x \in \boxed{}$

b) $x^4 + 6x^3 + 11x^2 < -6x$

$$x^4 + 6x^3 + 11x^2 + 6x = 0 \rightarrow x(x^3 + 6x^2 + 11x + 6) = 0$$

$$x = \boxed{} \quad x = \boxed{} \quad x = \boxed{} \quad x = \boxed{}$$

Signo

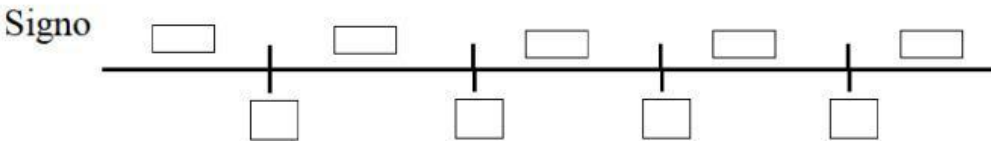


Solución: $x \in \boxed{}$

c) $\frac{x(x-2)}{x^2+4x+3} \leq 0$

$$x(x - 2) = 0 \rightarrow x = \boxed{} \quad x = \boxed{}$$

$$x^2 + 4x + 3 = 0 \quad \rightarrow \quad x = \boxed{} \quad x = \boxed{}$$



Solución: $x \in$

