

## Inecuaciones cuadráticas

Completa los espacios en blanco y marca la alternativa correcta según sea el caso:

### Ejercicio 1

$$x^2 - 2x + 8 < 0$$

$$(x - 2)(x + 4) < 0$$

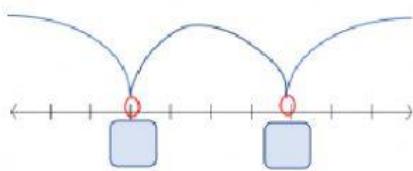
$$x - 2 = 0 \quad x + 4 = 0$$

$$x = \boxed{\phantom{0}}$$

$$x = \boxed{\phantom{0}}$$

$$P.C = \{ \boxed{\phantom{0}} ; \boxed{\phantom{0}} \}$$

Gráficamente:



- a) C.S.:  $< 2; 4 >$
- b) C.S.:  $< -2; 4 >$
- c) C.S.:  $< \infty^-; -4] \cup [2; \infty^+ >$
- d) C.S.:  $< -4; 2 >$

### Ejercicio 2

$$x^2 + 5x - 50 > 0$$

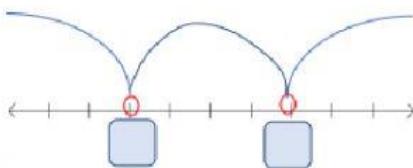
$$(x - 5)(x + \boxed{\phantom{0}}) > 0$$

$$x - 5 = 0 \quad x + \boxed{\phantom{0}} = 0$$

$$x = \boxed{\phantom{0}}$$

$$P.C = \{ \boxed{\phantom{0}} ; \boxed{\phantom{0}} \}$$

Gráficamente:



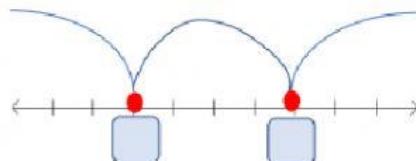
- a) C.S.:  $< -10; -5 >$
- b) C.S.:  $< -10; 5 >$
- c) C.S.:  $< \infty^-; 10] \cup [5; \infty^+ >$
- d) C.S.:  $< \infty^-; -10 > \cup < 5; \infty^+ >$

### Ejercicio 3

$$\begin{aligned}x^2 + 7x + 12 &\leq 0 \\(x + \square)(x + 4) &\leq 0 \\x + \square = 0 & \quad x + 4 = 0 \\x = \square & \quad x = \square\end{aligned}$$

$$P.C = \{\square ; \square\}$$

Gráficamente:



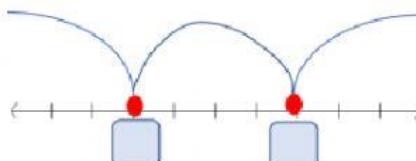
- a) C.S.:  $[3; 4]$
- b) C.S.:  $[-4; -3]$
- c) C.S.:  $(-\infty; -4] \cup [-3; \infty)$
- d) C.S.:  $(-\infty; -3) \cup (4; \infty)$

### Ejercicio 4

$$\begin{aligned}x^2 - 3x - 18 &\leq 0 \\(x + \square)(x + 3) &\leq 0 \\x + \square = 0 & \quad x + 3 = 0 \\x = \square & \quad x = \square\end{aligned}$$

$$P.C = \{\square ; \square\}$$

Gráficamente:



- a) C.S.:  $[-3; 6]$
- b) C.S.:  $[-6; 3]$
- c) C.S.:  $(-\infty; -3] \cup [6; \infty)$
- d) C.S.:  $(-\infty; -6) \cup (3; \infty)$