

Ecuaciones de segundo grado

Resolver ecuaciones de segundo grado paso a paso

1 Resuelve las siguientes ecuaciones poniendo en x_1 la solución menor y en x_2 la mayor:

a) $x^2 + 4x - 5 = 0$

$$\left. \begin{array}{l} a = \boxed{} \\ b = \boxed{} \\ c = \boxed{} \end{array} \right\} \rightarrow x = \frac{-\boxed{} \pm \sqrt{\boxed{}^2 - 4 \cdot \boxed{} \cdot \boxed{}}}{2 \cdot \boxed{}} = \frac{-\boxed{} \pm \boxed{}}{\boxed{}} \quad \begin{array}{l} x = \boxed{} \\ x = \boxed{} \end{array}$$

b) $2x^2 - 7x + 3 = 0$

$$\left. \begin{array}{l} a = \boxed{} \\ b = \boxed{} \\ c = \boxed{} \end{array} \right\} \rightarrow x = \frac{-\boxed{} \pm \sqrt{\boxed{}^2 - 4 \cdot \boxed{} \cdot \boxed{}}}{2 \cdot \boxed{}} = \frac{\boxed{} \pm \boxed{}}{\boxed{}} \quad \begin{array}{l} x = \boxed{} \\ x = \boxed{} \end{array}$$

c) $-x^2 + x + 6 = 0$

$$\left. \begin{array}{l} a = \boxed{} \\ b = \boxed{} \\ c = \boxed{} \end{array} \right\} \rightarrow x = \frac{-\boxed{} \pm \sqrt{\boxed{}^2 - 4 \cdot \boxed{} \cdot \boxed{}}}{2 \cdot \boxed{}} = \frac{-\boxed{} \pm \boxed{}}{-\boxed{}} \quad \begin{array}{l} x = \boxed{} \\ x = \boxed{} \end{array}$$

d) $2x^2 - 7x - 4 = 0$

$$\left. \begin{array}{l} a = \boxed{} \\ b = \boxed{} \\ c = \boxed{} \end{array} \right\} \rightarrow x = \frac{-\boxed{} \pm \sqrt{\boxed{}^2 - 4 \cdot \boxed{} \cdot \boxed{}}}{2 \cdot \boxed{}} = \frac{\boxed{} \pm \boxed{}}{\boxed{}} \quad \begin{array}{l} x = \boxed{} \\ x = -\frac{\boxed{}}{\boxed{}} \end{array}$$

e) $x^2 - 10x + 25 = 0$

$$\left. \begin{array}{l} a = \boxed{} \\ b = \boxed{} \\ c = \boxed{} \end{array} \right\} \rightarrow x = \frac{-\boxed{} \pm \sqrt{\boxed{}^2 - 4 \cdot \boxed{} \cdot \boxed{}}}{2 \cdot \boxed{}} = \frac{\boxed{} \pm \boxed{}}{\boxed{}} = \boxed{}$$

f) $x^2 - x + 2 = 0$

$$\left. \begin{array}{l} a = \boxed{} \\ b = \boxed{} \\ c = \boxed{} \end{array} \right\} \rightarrow x = \frac{-\boxed{} \pm \sqrt{\boxed{}^2 - 4 \cdot \boxed{} \cdot \boxed{}}}{2 \cdot \boxed{}} = \frac{\boxed{} \pm \sqrt{-\boxed{}}}{\boxed{}} = \boxed{}$$

Ecuaciones de segundo grado

Resolver ecuaciones de segundo grado paso a paso

- 2 Completa el siguiente cuadro poniendo en x_1 la solución menor y en x_2 la mayor:

	a	b	c	¿TIENE SOLUCIÓN?	x_1	x_2
$5x^2 - 8x = 0$						
$x^2 - 64 = 0$						
$x^2 - 3x + 4 = 0$						
$4x^2 + x - 3 = 0$						