

$$p(7) = 3$$

$$a) x^2 - 6x + 8 = 0$$

$$a = 1$$

$$b = -6$$

$$c = 8$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(-6) \pm \sqrt{(-6)^2 - 4 \cdot 1 \cdot 8}}{2 \cdot 1} =$$

$$= \frac{6 \pm \sqrt{36 - 32}}{2} = \frac{6 \pm \sqrt{4}}{2} = \frac{6 \pm 2}{2} \quad \begin{array}{l} \frac{6+2}{2} = \frac{8}{2} = 4 \\ \frac{6-2}{2} = \frac{4}{2} = 2 \end{array}$$

$$b) x^2 - 6x + 5 = 0$$

$$a = 1$$

$$b = -6$$

$$c = 5$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(-6) \pm \sqrt{(-6)^2 - 4 \cdot 1 \cdot 5}}{2 \cdot 1} =$$

$$= \frac{6 \pm \sqrt{36 - 20}}{2} = \frac{6 \pm \sqrt{16}}{2} = \frac{6 \pm 4}{2} \quad \begin{array}{l} \frac{6+4}{2} = 5 \\ \frac{6-4}{2} = 1 \end{array}$$

$$c) x^2 + x - 12 = 0$$

$$a = 1$$

$$b = 1$$

$$c = -12$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-1 \pm \sqrt{1^2 - 4 \cdot 1 \cdot (-12)}}{2 \cdot 1} =$$

$$= \frac{-1 \pm \sqrt{1 + 48}}{2} = \frac{-1 \pm \sqrt{49}}{2} = \frac{-1 \pm 7}{2} \quad \begin{array}{l} \frac{-1+7}{2} = \frac{6}{2} = 3 \\ \frac{-1-7}{2} = \frac{-8}{2} = -4 \end{array}$$

$$d) x^2 + 7x + 10 = 0 \quad a=1 \quad b=7 \quad c=10$$

$$x = \frac{-7 \pm \sqrt{49 - 4 \cdot 1 \cdot 10}}{2 \cdot 1} = \frac{-7 \pm \sqrt{49 - 40}}{2} =$$

$$= \frac{-7 \pm \sqrt{9}}{2} = \frac{-7 \pm 3}{2} \quad \begin{array}{l} \nearrow \frac{-7+3}{2} = \frac{-4}{2} = \underline{-2} \\ \searrow \frac{-7-3}{2} = \frac{-10}{2} = \underline{-5} \end{array}$$

$$e) 2x^2 - 7x + 6 = 0 \quad a=2 \quad b=-7 \quad c=6$$

$$x = \frac{-(-7) \pm \sqrt{49 - 4 \cdot 2 \cdot 6}}{2 \cdot 2} = \frac{7 \pm \sqrt{49 - 48}}{4} =$$

$$= \frac{7 \pm \sqrt{1}}{4} = \frac{7 \pm 1}{4} \quad \begin{array}{l} \nearrow \frac{7+1}{4} = \frac{8}{4} = \underline{2} \\ \searrow \frac{7-1}{4} = \frac{6}{4} = \underline{\frac{3}{2}} \end{array}$$

$$f) x^2 - 2x + 1 = 0 \quad a=1 \quad b=-2 \quad c=1$$

$$x = \frac{-(-2) \pm \sqrt{4 - 4 \cdot 1 \cdot 1}}{2 \cdot 1} = \frac{2 \pm \sqrt{4 - 4}}{2} = \frac{2 \pm \sqrt{0}}{2} = \frac{2 \pm 0}{2} = \underline{1}$$

$$g) x^2 + 6x + 9 = 0 \quad a=1 \quad b=6 \quad c=9$$

$$x = \frac{-6 \pm \sqrt{36 - 4 \cdot 1 \cdot 9}}{2} = \frac{-6 \pm \sqrt{36 - 36}}{2} = \frac{-6 \pm \sqrt{0}}{2} = \frac{-6 \pm 0}{2} = \underline{-3}$$

$$h) x^2 - 3x + 3 = 0 \quad a=1 \quad b=-3 \quad c=3$$

$$x = \frac{3 \pm \sqrt{9 - 4 \cdot 1 \cdot 3}}{2} = \frac{3 \pm \sqrt{9 - 12}}{2} = \frac{3 \pm \sqrt{-3}}{2}$$

No hay solución.

↓
No se puede calcular la raíz cuadrada de un número negativo.