

①

Να λύσεις την εξίσωση: $x^3 - 5x^2 - 3x = 0$

Λύση

$$x^3 - 5x^2 - 3x = 0$$

$$x(x^2 - 5x - 3) = 0$$

$$x = 0 \quad \text{ή} \quad x^2 - 5x - 3 = 0$$

$$\Delta = 25 - 4 \cdot 1 \cdot (-3)$$

$$\Delta = 25 + 12 = 37.$$

$$p_{1,2} = \frac{5 \pm \sqrt{37}}{2 \cdot 1} = \begin{matrix} \nearrow \frac{5 + \sqrt{37}}{2} \\ \searrow \frac{5 - \sqrt{37}}{2} \end{matrix}$$