Exercicio 02

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1 Algebraic solution

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$ax^2 + bx + c = 0$

2 Generalized Lotka–Volterra equation

$\frac{dx_i}{dt} = x_i f_i(\mathbf{x})$

$\mathbf{f} = \mathbf{r} + A\mathbf{x}$

$\mathbf{x} = -A^{-1}\mathbf{r}$