ISIS1105 - 202520
TAREA 2
SECCIÓN 2

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1. LHRRs - no repeated roots

1.1. Solve the recurrence
$$\begin{cases} t(0) = 4 \\ t(n) = -3t(n-1), \ n \geq 1. \end{cases}$$

1.2. Solve the recurrence
$$\begin{cases} t(0) = 1, \ t(1) = 2 \\ t(n) = -t(n-1) + 6t(n-1), \ n \geq 2. \end{cases}$$

1.3. Find the recurrence of which
$$t(n) = \sqrt{3}(-3)^n + \sqrt{2}2^n$$

is the unique solution.