$$T(n) = 3T(n-1) + 8T(n-3), T(3) = 0$$

$$1T(n) - 3T(n-1) - 8T(n-3) = 0$$

$$1 \times_{0}^{3} - 3 \times_{1}^{2} - 0 \times_{2}^{2} - 8 \times_{3}^{0} = 0$$

$$T(n-2) \times_{0}^{3} - 3 \times_{1}^{2} - 0 \times_{2}^{2} - 8 \times_{3}^{0} = 0$$

$$T(n-2) \times_{0}^{3} - 3 \times_{1}^{2} - 0 \times_{2}^{2} - 8 \times_{3}^{0} = 0$$

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$$T(n-3) \times_{0}^{3} - 3 \times_{0}^{3} = 0$$

$$T(n-3) \times_{0}^{3}$$

$$T(u) = \alpha \cdot 3^{n} + 6 \cdot (-3)^{n} + C \cdot 2^{n}$$
Sol- Parcial

$$\begin{cases} a + b + c = 0 \\ 3a - 3b + 2c = 0 \\ 9a + 9b + 4c = 1 \end{cases} (a, b, c) = (1, 3, 0)$$

$$T(n) = 1 \cdot 2^{n} + 3 \cdot (-3)^{n} + 0 \cdot 3^{n}$$

$$T(n) = 2^{n} + 3(-3)^{n}$$

Si el término dominante es negativo:

EL EJERCICIO está HORRIBLE.

$$\dot{c} T_{2}(n) = 2^{n} - 3^{n}?$$

$$T(n) = 2T(n-2) + T(n-1) + 3^{n}(\log(n))$$

$$T(0) = 0$$

$$T(1) = 1$$

$$T(2) = 1$$

$$((x-2) \cdot (x-1))(x-3)^{1+1} = 0$$

$$(x-z)(x-1)(x-3)^{z}=0$$

$$\begin{cases}
\Gamma_1 = 2 & m_1 = 1 \rightarrow 2^n \\
\Gamma_2 = 1 & m_2 = 1 \rightarrow 1
\end{cases}$$

$$\begin{cases}
\Gamma_3 = 3 & m_3 = 2 \rightarrow 3^n, 3^n, n
\end{cases}$$

$$T(u) = a2^{u} + b + c3^{u} + d3^{u} n$$

$$1: T(0) \rightarrow$$

$$3: T(z) \Rightarrow$$

$$T(3) = 2T(1) + 1T(2)$$