Montiel cruz Jorge de Jesús PRO6 a). Se tienen las signientes señales en trempo discreto finj=e-nutnj; ginj=2-nutnj a) Realize la convolución de las señales usando tablas de convolución D) Realne la convolución de las señales sin usus tablus de convolución usando tablas. $finj = (e^{-1})^n utnj ; yinj = (z^{-1})^n utnj$ $y'_{1} = f \nabla n J \qquad y_{2} = g T n J$ $caosales \cdot y_{1}^{n+1} - y_{2}^{n+1} \quad u \nabla n J$ 1, Ins * /2 [n] = - 1 - /2 $y_1 \neq y_2$ $(e^{-1})^{n+1} = (2^{-1})^{n+1} = e^{-n-1} = e^{-n-1}$ 2-611 $= \frac{2e(e^{n}e^{-2}-2^{n}e^{-1})}{2-e(e^{n}-e^{2})} = \frac{2}{2-e(e^{n}-e^{2})} = \frac{2}{2} \int u \ln J$

B)
$$f(n) \neq g(n) = \sum_{m=0}^{n} f(m) g(n-m)$$

$$= \sum_{m=0}^{n} e^{m} \sum_{n=0}^{n} (n-m)$$

$$= \sum_{m=0}^{n} \left(\frac{2}{e}\right)^{n} y(n) do \sum_{m=0}^{n} a^{n} = \frac{1-a^{n+1}}{1-a}$$

$$+ cansoler$$

$$= \sum_{n=0}^{n} \left(\frac{1-\left(\frac{2}{e}\right)^{n+1}}{1-e}\right) = \sum_{n=0}^{n} \left(\frac{2}{e}\right)^{n} - c$$

$$= \sum_{n=0}^{n} \left(\frac{2e^{n}-2^{n}}{1-a}\right) = \sum_{n=0}^{n} \left(\frac{2e^{n}-2}{2-e}\right) = \sum_{n=0}^{n} \left(\frac{2e^{n}-2}{2-e}\right)$$

$$= \sum_{n=0}^{n} \left(\frac{2e^{n}-2^{n}}{1-a}\right) = \sum_{n=0}^{n} \left(\frac{2e^{n}-2}{2-e}\right) = \sum_{n=0}^{n} \left(\frac{2e^{n}-2}{2-e}\right)$$

$$= \sum_{n=0}^{n} \left(\frac{2e^{n}-2^{n}}{1-a}\right) = \sum_{n=0}^{n} \left(\frac{2e^{n}-2}{2-e}\right) = \sum_{n=0}^{n} \left(\frac{2e^{n}-2}{2-e}\right) = \sum_{n=0}^{n} \left(\frac{2e^{n}-2}{2-e}\right) = \sum_{n=0}^{n} \left(\frac{2e^{n}-2e^{n}}{2-e}\right) = \sum_{n=0}^{n} \left(\frac{2e^$$

