$$\frac{2-\text{TRANSFORM}}{2\{an^{3}=\frac{2}{2-a}\}^{2}} = \frac{2\{n\ln^{3}\frac{1}{3}, \frac{2}{2} \times \ln^{3}2^{-n}\}}{2\{an^{3}=\frac{2}{2-a}\}^{2}} = \frac{2\{n\ln^{3}\frac{1}{3}, \frac{2}{2} \times \ln^{3}2^{-n}\}}{2\{n^{3}=\frac{2}{2-a}\}^{2}} = \frac{2\{n^{3}=\frac{2}{2-a}\}^{2}}{2\{n^{3}=\frac{2}{2-a}\}^{2}} = \frac{2\{n\ln^{3}\frac{1}{3}, \frac{2}{2} \times \ln^{3}2^{-n}\}}{2\{n^{3}=\frac{2}{2-a}\}^{2}} = \frac{2\{n\ln^{3}\frac{1}{3}, \frac{2}{2} \times \ln^{3}2^{-n}\}}{2\{n^{3}=\frac{2}{2}, \frac{2}{2} \times \ln^{3}3^{-n}\}} = \frac{2\{n\ln^{3}\frac{1}{3}, \frac{2}{2} \times \ln^{3}3^{-n}\}}{2\{n^{3}\frac{1}{3}, \frac{2}{2} \times \ln^{3}3^{-n}\}} = \frac{2}{2\{n^{3}\frac{1}{3}, \frac{2}{2} \times \ln^{3}3^{-n}\}} = \frac{2}{2\{n\ln^{3}\frac{1}{3}, \frac{2}{2} \times \ln$$

2 (neln-k) y =
4. Right whiting;

 $2 \left(\pi \ln + 21 \right)^{2} = 2^{2} 2 \left(\pi \ln 3 - 2^{2} \pi \log - 2 \pi \ln 3 \right) - 2^{2} \pi \ln 3 - 2^{$

2 (2 (n+1) y= 2 7 (2 (n) y - 2 2 (0)

$$2\left(nn\ln 1\right) = -2\frac{d}{d2} \times (2)$$

$$2\left(\frac{1}{n}\right)^{2} \log\left(\frac{2}{2-1}\right)$$

$$2\left(\frac{1}{n-1}\right)^{2} = \frac{1}{2}\log\left(\frac{2}{2-1}\right)$$

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

$$2(n(n+1))^{\frac{1}{2}} = \frac{02^{2}}{(2-1)^{3}}$$

2 (2-1)2

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

$$2\{1\}^{2} = \frac{2}{2-1}$$

$$2^{2}\ln - 3^{3} = \frac{22 - 2^{2}}{(2-1)}$$

$$\frac{2\int_{n(n-1)}^{1} = \frac{1-2}{2} \log \frac{7}{2}}{2^{n+1}} = \frac{1-2\log \frac{7}{2}}{2^{n+1}}$$

$$2\int_{n(n-1)}^{1} = \frac{1-2\log \frac{7}{2}}{2} = \frac{1-2\log \frac{7}{2}}{2^{n+1}}$$

$$2\int_{n(n-1)}^{1} = \frac{1-2\log \frac{7}{2}}{2} = \frac{1-2\log \frac{7}{2}}{2^{n+1}}$$

$$2 \left\{ \frac{1}{n(n+1)} \right\} = (1-2) \log \frac{2}{2-1}$$

$$2 \left\{ r^{n} \cos n \circ y = \frac{2}{2} - \frac{2}{2} r \cos \theta \right\}$$

$$2 \{ r^n \omega s n \sigma y = \frac{2^2 - 2r \omega s \sigma}{2^2 - 2r \omega s \sigma + r^2}$$

$$2 \left\{ r^n \sin n_0 \right\} = \frac{2r \sin 0}{2^2 - 22r \cos 0 + r^2}$$

$$2(r^{h}\cos n\pi)^{3} = \frac{2^{2}}{2^{2}+r^{2}}$$

$$2 \left\{ r^{n} \sin \frac{\pi}{2} \right\} = \frac{2r}{2^{2} + r^{2}}$$

* Inverse 2- Tolansforms

$$2^{-1}\left[\frac{2}{2-\alpha}\right] = \alpha^n$$

$$2^{-1}\left[\frac{2}{(2-1)^2}\right] = n$$

$$2^{-1} \left\lceil \log \left(\frac{2}{2-1} \right) \right\rceil = \frac{1}{n}$$

$$24\left[\frac{2}{2-1}\right]=1$$

$$2^{4}\begin{bmatrix} K^{2} \\ 2-1 \end{bmatrix} = K$$

$$2^{-1}\left[\frac{\alpha^2}{(2-\alpha)^2}\right] = \alpha^n$$

$$2^{-1}\left[\frac{2^{2}}{(2-1)^{2}}\right]^{2}n+1$$

$$2^{-1} \left[\frac{2^{2}}{2^{2}+1} \right] = \cos n\pi$$

$$2^{-1} \left[\frac{2}{2^n + 1} \right] = \sin n\pi$$

* Example:

$$2 - \left[\frac{3}{32 - 1} \right] \Rightarrow \frac{3}{32 - 1} = 2 - \frac{1}{32} = \frac{3}{32 - 1}$$

$$2^{-1} \left[2^{-1} \frac{3^2}{2^{-1}} \right] = \left(\frac{1}{3} \right)^n n - n - 1$$

$$= \left(\frac{1}{3} \right)^{n-1}$$

of Always jourseur 2 in numerator.

* Difference equation

Equation in volving differences between successive values of a function of a districte naurable.

* Formulation of Riff equations:

panoi: Hn22+m-1+1 - H1=1 +12=3

No: of bit strings of length n athat has no 2 conserve o's] a 2=3 a1= 2

an=an-1+an-2 length n, ends with o

RR-I scides, FDE (TT) scides.

 $2\{f(n)\}^{2} F(2)$ $\int_{0}^{\infty} 2\{f(n)\} g(n)\} = F(2)[n](2)$ $2\{g(n)\}^{2} G(2)$ = f(2)[n](2)

 $\{fingling = 2 fingin-r\}$

2 -> Non inear operation exist over entire plane

* unit-step fn

$$U(n)^{2} \int_{0}^{1} \frac{1}{n \geq 0} \frac{n \geq 0}{n \geq 0} \frac{n \geq 0}{n \geq 0} \int_{0}^{1} \frac{1}{n \geq 0} \frac{1}{n \geq 0} \int_{0}^{1} \frac{1}{n \geq$$

of cheet 2 - Transform convolution 3rd warm,

$$\frac{(n-p)}{(n-1)}$$
 $\frac{(n-1)}{(n-1)}$ $\frac{(n-1)}$

2 Cm doesnt exist over entire compressione

n [2a+(n-1)d]