Trans or meda 2 Eg diperençes lineares invariantes $\chi[x] \rightarrow \chi(z)$ $z \in C$ $X(S) = \int_{\infty}^{\infty} x(t) e^{-st} dt$ $X(2) = \sum_{k=0}^{\infty} x(k) 2^{-k}$ Surge de Segainte. x(t) = amostran = ref) = x(t) - T(t) T(t) = trem de impulsos TT(t)= 2 8(t-KT) Substituinde tudo: \times (5) = $\sqrt{2}$ (4) e^{-5} d+ $\widetilde{\chi}(t) = \chi(t) \cdot \overline{\chi}(t) = \chi(t) \cdot \overline{\chi}$ $X(5) = \int_{\chi(1)} \sum_{s} S(t-k\tau) e^{-S\tau} dt$

$$X(s) = \int_{-\infty}^{\infty} \sum_{k=0}^{\infty} x(k) \, s(k-kT) \, e^{-st} \, dt$$

$$= Z \int_{-\infty}^{\infty} \sum_{k=0}^{\infty} x(k) \, s(k-kT) \, e^{-st} \, dt$$

$$= Z \int_{-\infty}^{\infty} x(kT) \, e^{-skT}$$

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$$Z(a^{k} \cdot (n)) = Z(az^{k})^{k}$$

$$= J + az^{k} + (az^{k})^{2} + (az^{k})^{3} + \cdots$$

$$PG de nezedo g = az^{k}$$

$$himile de PG = \frac{a_{0}}{1 - q}$$

$$Z(a^{k} \cdot (n^{k})) = \frac{1}{J - az^{k}} \cdot \frac{2}{2} = \frac{2}{2 - a}$$

$$S6 vale Se |q| C|$$

$$|az^{-1}| < 1 \Rightarrow |z| > |a|$$

$$Z(x(x+1)) = 2 \times (z) -$$

$$d(x(x)) = S \times (s) - x(0)$$

$$Z(x(x+1)) = \sum_{k=0}^{\infty} x(k) z^{-k}$$

$$Z(x(x+1)) = \sum_{k=0}^{\infty} x(k) z^{-k}$$

$$= x(0) + x(1)z^{-1} + x(2)z^{-2} + \cdots$$

$$\begin{aligned}
& = \chi(1) + \chi(2) = \int_{k=0}^{\infty} \chi(k+1) e^{-k} \\
& = \chi(1) + \chi(2) = 1 + \chi(2) = 2 + \chi(2) = 2 + \chi(2) = 2 + 1 + \chi(2) = 2 + \chi($$

V(2) = Zho(n) = Zhn(n+1) = 2x(z) - 2x(b) $\mathbb{Z}\left\{2\times(2)-2\times[0]\right\}$ = 22×(2) - 22x [0] - 2 10[0] 6 [4]= x [4+1] => 6 [0] = x [1] => Z 4 x [K+2]) = 2 x(2) - 22x(0) - 2 x [1] Z / 2 [k+ n] / = 2 x (z) - 2 x [0] - 2ⁿ⁻¹ x[1) - 2ⁿ⁻²x(2) ---- 2 1 X [N-1] Fhn[k+4] = 24 X(2) - 24 x(D) - 2 2 2 x t 2) -2x(3)

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

$$A = R(x)(x-p_1) |_{z=p_1}$$

$$= \frac{1}{(z-p_1)(x-p_2)} \cdot (z-p_1) |_{z=p_1}$$

$$= \frac{1}{(z-p_1)(x-p_2)} \cdot (z-p_2) |_{z=p_2}$$

$$= \frac{1}{(z-p_1)(z-p_2)} |_{z=p_2}$$

$$= \frac{$$