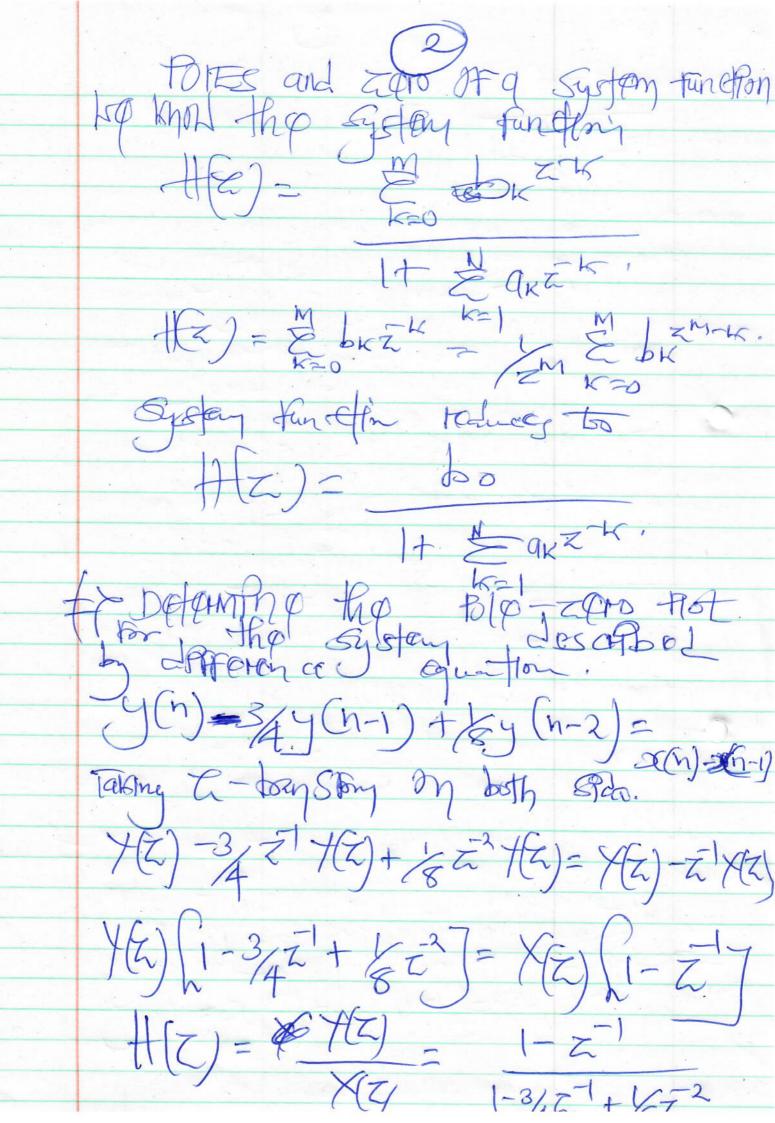
Signal the Z-transform and the Proc of the 2(n) = - bn u(-n-1) of Bythiffe duration and $\chi(z) = \frac{2}{2} J(n) z^n \qquad U(-n-1) = 0 \text{ for } n \neq 0$ = - & bnz-n - & b-lel-n
n=-00 n= (b-lel-n The above series coverage of the Roc



ROC 7-1 18/185 (m(Z) the System Pantling ordo Mindfin Connoz Potes Systemy Lesoners by Lordon Co Systemy Lesoners by Lapparen co y(n) = 5/64 (n-1) - 1/64 (n-2) + x(n) - x(n-1)

 $H(z) = \frac{\chi(z)}{\chi(z)} = \frac{\chi(z$ The system described by the difference equation yin = 54 (n-1) - + x (n)

Taking to bansing in both side T(Z)= 5 2 7(Z) + X(Z) HZ/[1-/52] = X(Z) H(Z) = Y(Z) = 1-/3Z

Find the muest - Z toansmy h(n)=(5)n u(n) tind the System for Hon and the Ponkies Bornson
If the System Gestiles. By
Jifference agustin y (n) - x(n) (J(n)=x(n)+2x(n-1)-4x(n-2)+x(n-3)

THEN The to tonsom OF the Jequence x(h) = (3) n-1 u(n-1) the sequence (3) h wn & Z ((3) apr) = 2 ugng olight boterty 3 mg hop

Z(2(n-1)) = Z X (=) :. Z [(3) nu(n-1)] = z = z - z The system tandfon The system is described by a linear constant constant constant deference equation of the form of the form of the start of Y(Z) = - E 9K Y(Z) ZK + E DK X(Z) ZK

Y(Z) (1 + E 9KZK) = E DK ZK X(Z)