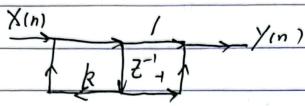
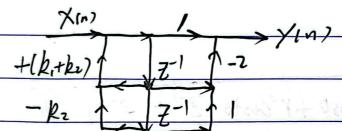
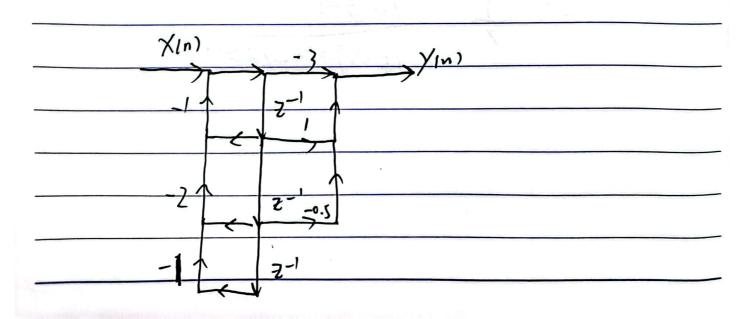
= UZ-1 + X = U 117 U+ UZ-1 x 2 = Y V Z -1 x r cos0 + (X + U(-rsin0), 11. rws0 + V. Z-1 = Y 7. 2+cos0 + 12cos20. 2-1+ 2-1+ sin0 (3) X + XZ - Z - Y (-1) + YZ - Z - x (-0.9) + YZ-1 x 1.6 = Y 1+0.92-2-1.62-1



~(k,+k2) 2-1+ k2 2-2





 $\frac{f.4.}{H(s) = \frac{S+0.5}{(S+0.5)^2+9} = \frac{1}{2} \frac{1}{S+0.5+2j} + \frac{1}{2} \frac{1}{S+0.5+2j}$ $H(z) = \frac{Z(Z-e^{-0.5T} \cos(zT))}{(Z-e^{-0.5T} z)T}$

Wp=0.26132, dp=0.75dB, 8.5 Ws=0.401fz, 2s=20dB Jup = = tany $-\frac{1}{9}\frac{ksp}{sp} = 6.2 \quad \sqrt{3} = 7.$ $\sqrt{3}\frac{ksp}{sp} = 6.2 \quad \sqrt{3} = 7.$ $\sqrt{3}\frac{ksp}{sp} = 6.2 \quad \sqrt{3} = 7.$ $\sqrt{3}\frac{ksp}{sp} = 6.2 \quad \sqrt{3} = 7.$ Sk= Slee)[=+2k-1] T, k=1,2,...,7 $H(z) = H_{\alpha}(s)$ | $s = \frac{2}{7} \frac{1-z^{-1}}{1+z^{-1}}$

8,12 Wc = 22 tc = 0.47 $\int_{C} \frac{2}{T} + an \frac{\omega_{c}}{2}$ C, = tan No = 0.727 D.H.p15)= -1 53+252+25+1 1-0.52-1+0.43 2-2-0-0562-3 f: = 400 HZ, f: = 60 HZ $W: = 22 \frac{fc}{f} = 62$ $W: = 22 \frac{fc}{f} = 43$ $W: = 22 \frac{fc}{f} = 43$ 8.13. COSWO = Sin (W,+ Wz) - 0.065 Sin WitsinWa SC = COS WO-GOS WZ = 18 Sin We Halp) = 1

 $\frac{2}{2} = \frac{5}{5\pi c}, \qquad \frac{5}{2} = \frac{7}{2}$