EXERCISE 4

1 2 3 4 5 6 7 8 9 10

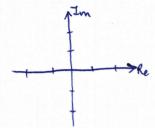
E4. Problem 1. Z-Transforms

[b c de Fah]

Achermine the z-transforms, or sketch the pole-zero plot and indicate the ROC. Indicate whether or not the fourier Transforms exist.

(V) x[n]= 8[n], neZ

$$\hat{x}(z) = \sum_{n=-\infty}^{\infty} \times C_n \int z^n = \sum_{n=-\infty}^{\infty} \delta[n] z^n = \pm^0 = \underbrace{\int -\hat{x}(z)}_{n=-\infty}$$



PROC: {ZEC} {|z|=1}EROC => [F.T. exists.]

b) x[n]= 8[n-1]

$$\hat{\chi}(e) = \sum_{p} (c_{p-1}) z_{-p} = \sum_{z=1}^{q} z_{z}(z)$$

