Day ___ Month ___ Year.___ HWA Subject. 9179900

X(2): 13/2 , 121>+ n(b)= r(+)~[~]++~u[n] 12/50,1217n(t) = [(+) u[n]-1 u[-n-1] 17/2/くでクノとノくナ n(+)=- x(-) n[n. 1]- r u[n-1]

سر الف

$$H(z) = Y(z) = \frac{1}{|z|^2 + |z|^2} = \frac{1}{|z|^2 + 1}$$

$$\frac{1}{(z'-r)(z'-r)} = \frac{-r}{(z'-r)} + \frac{r}{(z'-r)} \Rightarrow$$

Y(2)= H(2).X(2)

$$X(s) = \frac{d^{r}}{ds^{r}} \left\{ \begin{array}{c} u(t+1) \\ \hline x(s) = \frac{d^{r}}{ds^{r}} \left\{ \begin{array}{c} u(t+1) \\ \hline x(s) = \frac{d^{r}}{ds^{r}} \left(\begin{array}{c} e \\ \hline s \end{array} \right) = \frac{e^{s}(s^{r}-rs-1)}{s^{r}} \\ \hline \\ R_{0}C : Re\{s\} > 0 \end{array} \right\}$$

n(t) = te ==te u(-t) + te == u(t) = -t 2(b) + t f(b) F(5) = 5+14 $G(s) = \frac{1}{s}$ Re {s}{r Re {5} > - 1" X(5)= 1 + 1 (S+r)" Roc: - MRess (r [\{u(t)}= \frac{1}{5}, \quad \{u(t-4)}= \frac{-5c}{5} n(t)=u(t+1)-u(t-1) $X(s) = \frac{e^{-s}}{s} - \frac{e^{+s}}{s}$ Roc: Regszo

