frequencies are 28/8/2024 unque fraquercies [0, 2m] D.T. Spids . Jwon noż Wo= aKK se[n] 41  $\mathcal{M}$ 

unique

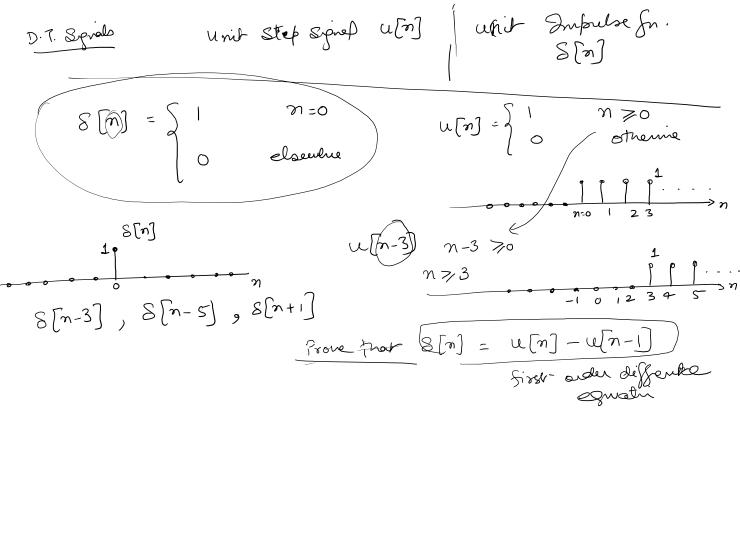
$$\omega_{0}: (2\mu + 1)\pi$$

$$= (-1)^{n}$$

 $x[n] = e^{j\omega_0 n} = j\pi n$ 

 $[-\pi, \pi]$ 

Wo= T



$$u[-2] = 0$$

$$u[-2] = \sqrt{2}$$

$$u[-1] =$$

< 0

k 20 1

 $\frac{m}{2}$  S(k)

> S[K]

K---0

u[n] =

$$= 0 + 0 + ...$$

$$= 8[-2] + 8[-3] + 8[-4] + ...$$

 $\sum_{\infty} S(u-K)$ 

$$20 + 0 + \frac{1}{100} = 0$$

$$= 0$$

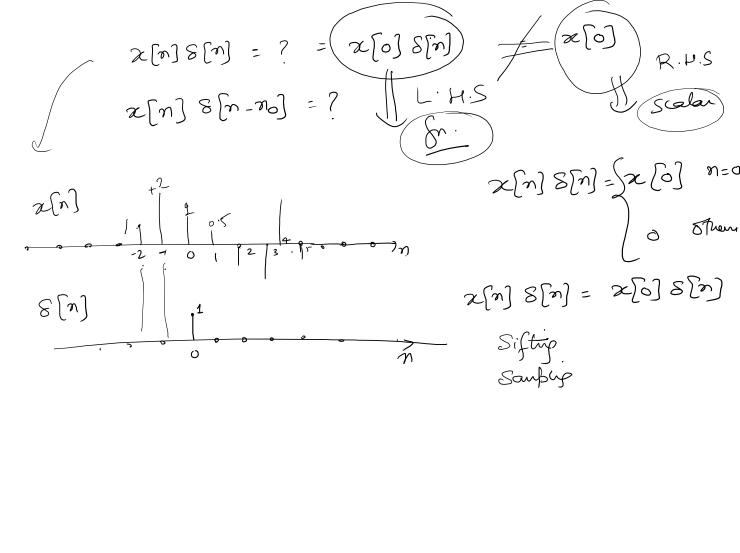
$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$



answer 
$$u(t) = \begin{cases} 1 & t > 0 \\ 0 & 5 \end{cases}$$
 answer  $s(t) = \frac{1}{st}$   $u(t) = \frac{1}{st}$   $u$ 

U(t)

$$S(t) = 0 \qquad t \neq 0 \qquad S_{\Delta}(t) \qquad S_{\Delta}(t)$$

$$S_{\Delta}(t) = 1 \qquad S_{\Delta}(t) = 1 \qquad S_{\Delta}(t)$$

$$S(t) = \lim_{\Delta \to 0} S_{\Delta}(t)$$

$$U_{\Delta}(t) = \lim_{\Delta \to 0} S_{\Delta}(t)$$

$$U(t) = \int_{\Delta \to 0} S(t) dt$$

 $\stackrel{\sim}{\geq}$  S[k]

u[n]

System

System of 2(4) y(t)