ASSIGNMENT	
Control System by Hanan M. 2018U1C30E	adan 2
as open loof transfer function	
G(s) H(s) = <u>k</u> s(1+Ts)	
Ans) $=$ $s(1+Ts)$ $G(s)H(s)$ $K$	
Therefore, the sinosuidal TF is	**
$\frac{1}{G(j\omega)H(j\omega)} = \frac{1}{J}\omega \left(1 + \frac{1}{J}\omega\right) = -\omega^2 + \frac{1}{J}\omega$	
GCim) HCim)	
At $w = -\infty$	
$\frac{1}{G(f\omega)H(j\omega)} = -\omega - (j\omega)$	
At $\omega = \overline{0}$ $\frac{1}{q(j\omega) H(j\omega)}$ $= -0 - j0$	
Λ. +	
At $\omega = 0^+$ $C(j\omega)H(j\omega)$ $C(j\omega)H(j\omega)$	
At $\omega = +\overline{\omega}$ $= -\infty + j\omega$ .	