TA 101: Engineering Graphics	First Semester	Problem No. :
Name:	Roll No.:	Lionicui 740%
(B) Griven hamsfer function is $\frac{k(S+3)}{(S+1)(S+2)}$		
poles for Given transfer function:		
S+1=0 and $S=-1$ and	S+2=0 & Hener [S=-2]	e[p=2]
and zeroes for bin	en transfer fund	hon:
S+3=0 Z=1	$\Rightarrow \boxed{S=-3}$ Zero of given	transfer bunction
Centroid = (-1-2)-		6
Angle which asymptotes make with realaxis =		
2 -1	30° € 9 cambe 0,1,	ļ;
here 900 bécause only one angle less thom 360°		
Analo of Asymptote	= 1800.	
for Break away and	Break in points, let	-us allie (me auco)she
Equation, ie, 1+ K(S+3) (3+1)(S+) 2) =0 -(St	3)(25+3) + (S+1)(5+2) (S+3)2
3 (S+1)(S+2)+	K(3+3) 20	7
$\Rightarrow s^2 + 3s + 9 + Ks + 3K = 0$ $\Rightarrow k = -(s+1)(s+2) \Rightarrow (\frac{dk}{ds} = 0)$		
$\Rightarrow K_2 - (S+1)(S)$ (8-13)) ds	TBS IITK

