D-Co)=Ke (b)=2 (5+1)2 , fb)=1
Ke tal que M6210 JB .

[Ob) Ph) = [Ke + [2 - yw - yw41 - yw41] = 0° + 0° - 50 - 20 aton w = -30 - 200 m

(Chills) = 180° => -180 = - 50 - 2 aton w -> - 2 aton w = -30 => aton w = 45° => w = 1 nad/s

MG. |C/w//w/=1 =)

MGJB + 20 log Ke = 0 => MG = -20 log Ke = -20 log Ke = -20 log Ke > 10 dB =>

-20 Jake = 10 => Kc = 10 1/2 = 0.3162 0 < Kc < 0.3162

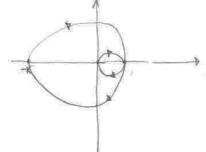
1 1

2- Ab)=1, (b) (b) = -k (6,0+1)(6,0+1)2, K>0, 6,>0, 62>0

15ms 6 6cs

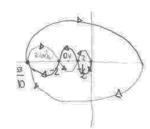
Justin AB, som stones [Charlen] = 180 - atomer Latan son [Charlen] : K

W+0 => [Cf : 160° W+100 => [Cf : -50 |CP|: 0



Etavel - x >-1 → x < 1 Solarl x > 1 May Ed x - 1

3 P=0 lana ser estant => N=0 => Z=0



-2K L-1 L / 2K -2K L-1 = 2K>1 AK>1/2 -1 C- / 2K 1 > / K = 1 K < Z

estavel estavel

The State of the s

0- (W) = K , K>0 (Flo)=1

a) Cb) = Kex (Tb+1)

Kc70, T70, 06261

(M-m) = Z

Amend = -30, +30

Sut am: 0. = 0.00+-1. +1 = -1+2 . -1+2 = 2-1 <0

Ab) = 2 (2754) + K(2x (754)) =0

= 2753 +5 + KK275 + KK2

3 27 KK247

5 1 KK24

KKedT-2TKKee

KKc~T(1-~)

b) cb): Kep(To+1) +>1

0 X X The Total

KKex >0

KK2T(1-4) >0

170 0<T>

somple instant.

5 - Cla): Kr+K20 (b) = 50/(s(25+4)) Flo) = 1 Sistema tipo 1 2 = 4 => Swm=2 => Swm >2 ts 625 parte real das raijer (6-2) Cla) Pla) = 50 (Kp +K30) 25Ka (5 + Kp/Ka (sto)(st/2) 71= \ (z-p)(z-p) A = -2+1/13 b=-2-1/13 2 Adjuly s + Wm2