3.23 (H) + D+ / K 5(5/0+3/5+1) / C Limit Cycle when It NIA) 6/5)=0 6(5)= K 5/5/, + 335 H) OF N/A) 6(5)=-1 Conditions O(N/A)(45) = 1 (3) ANIA) + 46/5) = -120 Cond (2) done first to find w @ &N/A) is 0 0-90-4an / 23wn =0 tan't is undefined at 90 meaning 1-w/2=0 ton (3) wr = 90 (N/A) /= 410 (1-/8/A)2 -) If K = 2 8 would (15) (40) (1-18/2)=1 conditions still hold, so w=wn $\left(\frac{2 \times 0}{3 w_n ii}\right)^2 \binom{1}{A^2} - \left(\frac{2 \times 0 \mathcal{E}}{3 w_n ii}\right)^2 \binom{1}{A^2} = 1$ 4D (1-14) (284)=1 160 (1-(4)) (5)-1 A4- (2KD) 2 + (3KDS)=0 16 AS= 1684 = A4 A= (3KD) + 1/3 (3KD) - 4/3KD6) A"-16282 +1684 =0 H= 168 + 1/16 - - 1/6/8" A= 2150 1/2 1 - 45° (3001) A- \85 - 145 12 A = 15 KD (1+ (1- (8WM))2 A= 188° + 45° 53 for A sightly 1:28/2±13 A most be real, so 17 Swn Is - K7 Swn is and above 0 A=3,98 , 1,048 OCK < 38 wn /2/ For A73.98 (N/A) & so stable

greater than

1,048 NA)1 so this is

unstable