	CLASSTEAM® Page No. Date	
	11 = 0 = 0 int N# = 0	== ∀
	consider aquilibrium point N# = 0 introduce small pertubation	``
	1177020-9	
	(nett to) = a nt (1-nt)	
	nft1=ant -ant	·
	heti=ant	
	stretching factor	
	Stable asymptotes.	
	06/61	-,
	0 < 9 < 1	·
_	- stable oscillations	 -,
	-1 < >< 0	
	-1 < a < 0	
	unstable oscillations	: ,,
	in Al-1 dale marked 2 - 100 wines	— : ,
	Q Z -1	—— ·. ,
	1-N16-11	—— '.
Ans-2)	N(++1) = N(+). e x(1-N(+)	
/	is some of the course in	, - ₋ ,
	For equilibrium	
	N(fH) = N(f)	— ; ,
-	Ut equilibrium be attained at N* N* = N* - (e) 8FE 8(1- N*)	—-: ,:
	N+ = N+ - (e) 8 = 8 (1 - 4-1)	
\rightarrow	N=07 and 1=1 = 8(1-Nd) = 1 e	
+	So 8/1-N=/=0	—". 一»
-	F	
+	N=K 1+ = 1 had 14	
+		
+	Consider F(N) = No ex(1-N)	
+	we can calculate the be	
+	finding F'(N) at aguilibrium points.	
+	office brim politics	

	Date / Date	
	F(N = 1.68[1-12] + N. 68[1-15] [-8]	
-3	F(N = 1.68[12] + N.68[12]	
-yi-1.	-at N=0	
-5-4-	W 10 = 0	
- _N -,	$F'(\delta) = e^{+\delta} = \lambda$	
-,5",	this is the stretching factor:	
- ¹ / ₂ -1.	Trus is the stretoning factor	
-%;1.	For stable asymptotes.	
-8	is stade asymptotic	
-A;=="-	0< > </td <td></td>	
-3,	028721	
	-00860	<u> </u>
_,,		
	For stall oscillations	
_^	14/22 1/20 XCESEL EYZO 14/8 Cloge this would have	
_v	X C e 8/2) e Y L O	
_w	1282 logt this would have	
-x	E halden.	
-X	For lang table oxillation	
	lets check the	
<i>F</i> —	8 > logs other point	
7 ⁻		
A	FILLS XX	
	F(K) = 1-x = 1	<i></i>
MAN	For stable asymptotes.	_
	growphotes.	\nearrow
	04/4	\nearrow
	141-2	
	17870	

	CLASSTEAM® Page No.
	Date
	For Staple Osi Nations 1 CA CR, A CO 1 CA CR, A CO 1-YCO
	$\frac{16}{16}$
	1-740
	The state of the s
	For fundado millations
	~:
	*
	<u>√</u>
141	N(t) = K
Ans-41	1+(K-N(0))p-8+
	1+(K-N(0) e-8+
	AL.
	This is a constant, for simplicity
9 9 1	This is a constant, for simplicity Sake take it to be Co
	N(t) = K =) +(se-8t = K
	$N(t) = K = 1 + (se^{-8t} = K)$ $1 + (se^{-8t} = K)$ $N(t)$
	$=) (8e^{-8t} = K- = K-M+1)$ $N(t) (6) N(t)$
	N(t+1)= 1/2 -8(t+1)
	1+ Coe - 8C++11
	2.
	= K = K = K = K = K = K = K = K = K = K
	1+6e-8Ee-8 1+6e-6-7 Hold K-10E) P.
	= K = K 1+6e-8+e-8 +6e-8+e-r +6k+ K-N(+)e-r peplane 6 N(+)
	1+K/V-NEID-8 WHILL STATE
	1+4 NEI 6-8 BARRAGE
	/IV

Scanned by CamScanner