DATE: / / Hore, Curtature is infinite ilp-olp isoquant iPlop batitubility blu LLK tapposi (: they are perfet Compliments 101=0 (DK = 0) substitution is zero. isoquant and elasticity of inversely or regative : mod elasticity will be b-11+00 production function Using a specific form of Cobb Douglas" production function It is of the form - X = bo (L where boro, biro, bzro, all Constant 8x = ba/L 16,-1 Kb2

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There (a)	Y AMRTSLIK = AMRTSLIK MRTSLIK
	1. $\Delta MRTS_{LIR} = \Delta k \cdot (K/L) = \Delta (K/L)$ $k \cdot (K/L) = (K/L)$
	1. DMRTSLIK = 1. D(K/L)
1.10	σ = 1. Δ(L K) = -1 1. Δ(HRTSLIK) -1. Δ(K/L)
	v=-1 Unitary Elasticity of Substitution
£9-	$b_0 = 100$, $b_1 = 1/2$, $b_2 = 3$. $1/2$ $X = 100 (L) \cdot (K)$
mt.	$X = 100 \int L (K)^{3}$ $X = b_{0} \cdot (b_{1} L^{b_{1}-1}) \cdot k^{b_{2}}$ $X = b_{0} \cdot (b_{1} L^{b_{1}-1}) \cdot k^{b_{2}}$
Uman	$\frac{MP_{L} = \Delta X}{\Delta L} = \frac{100 (B_{L})}{12} = \frac{112}{3} = \frac{112}{3}$ $= \frac{100 (\frac{1}{2} L^{2})}{12} = \frac{112}{3} = \frac{112}{3}$ $\frac{112}{MP_{K}} = \frac{3X}{3} = \frac{100 (L) (3K^{3})}{3K^{3}} = \frac{300 L}{K}$
	$\frac{MPK = \frac{\partial N}{\partial K} - \frac{1}{1} \frac{\partial N}{\partial K} $
	$\frac{b_2 - \frac{1}{2} k^3}{\frac{50 L^{1/2} k^2}{300 l^{1/2} k^2}} = 0.166 L K$
	MRTS = 0.17 K 4

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Cabb Dauglas Proof function eq- New Output = $x^* = f(kl, kk)$ $x^* = bo(kl)(kk)^{b_2}$ $= bo(kl)(kk)^{b_2}$				
				= b6 k L . R . K
			$x^* = k^{(b_1+b_2)} b_0 L k^{b_2}$	
	- f(Lik)= Xo old output			
	$x^* = f(kL, kK) = k^{b_1 + b_2} x_0$			
(.0				
thronge	$x^* = +(kl,kk) = k^{b_1+b_2} \times 0$			
= k2 X				
911	when e -s Constant.			
	for CD prod fin - & = (b1+b2)			
T.	(1) b, b, - Constant =7 2 = (b1+b2)			
	(2, b, 70, b, 20 =) /= (b1+b2)70 Constant			
	How if (i) b, 1 b2=1 - Construt Metern to scale			
	(ii) b, + b, -			
	land in the side and wat I HA Thesis			
- 1	Now - (i) R = 1 -> Grafant Heturn to scale			
- 510 L	(ii) k > 1 -> in crease in return to scale			
	(iii) k < 1 -> decrease in return to scale			
	.: CD Prod fun is homogeneous of dequely = (bi+b2)			

	1 - 32-2	Land
	- grage	PAGE NO.:
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	0 1 1	
	Product line of Curves	Dy isoclines
	0 1 1	
	Product line - It sho	the exposion
	Out of Avenue	2 de la companya del companya de la companya del companya de la co
	autput (xintreases). It should movement
	from one isoquant to	the other and the
	0	mor as we change
	all factor.	V
	Ex - lobory and	Cacilal bath land
	Capowi Gro	Capital both factor or (ex-labour)
Tombor bla	only one factor	(ex-labour)
	A 1 1 1 + 1 1 / A.	2 /
Case-	Only one factor (labour	I Variable (K Conet)
	J. 24 Fid	7 7 7 7 7 7 7 7
	In this Case, product (ine will be parallel to
	x-axis where K/L	
	L'intreases because	Capital is fixed here.
	\	
Short) KA / i	r:
EX OF Short	50 F10 = 9/	1 x incheases
	K=K	N Product
		line
1 1		
	1 1 1 1 1 1	3
ARE BETHE	2	3
		1 4-1
	1	Land K Janiable
Case 2	All factor Variable (Eg	LUM K MANGETC
-		k (1) - wasti
	,	1 10
al Valor	the 1 mal V are Namical	ble is a special case
	of Land K are Varial	1 1 1 1
Marie 7 11.0	o such product line a	vie Called isoclines
TAG	lines - An isocline us	broduct line or
130		
A Tay		
A PART OF THE PART		

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0	Curve which joins the point on different isoquents
30	at which the MRTS of factors i.e. (MRTS 4x) is Constant or unbanged.
	(MRTS 1/K) is Constant or unbanged).
N-	if the production funt is homogeneous then
	any degree of xix + ve) then in that Case an isoclines will be straight line passing
	an isoclines will be straight line passing
	through the origin.
	Along any isoclines KIL Matio stays the
1	Dame Constant.
	Eg - At upper graph, We Can see along 6 isoclies
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(KA) = (KB) = (KC) = slope of line I, (+Ve)
	Thought I
	Thous.
	I pogline II
	KB
	TO-
	Kn To
	TO, 12
	LA LB LC 7 L
	/ KA) = (KB) = (KC)
	(LA) LB
The second second	

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- 1	if Production is non.	homogeneous then an be a straight line
	isoclines will not	be a straight line
- 1	instead it will be	a Curte.
	flere, K/L ratio	Can change along an
tai	isocline for example	Can change along an
<u>mila pe</u>	4.	
-	slope = (KA) +	(KB) # (KC)
	LA	LB / Lc /
or field	a satura and a said	16 Tooline T
	Kc. test	
3	ido not in the day	Tsochie II
	KB+	
William L.	Kal - JA	E
	TO A STATE OF THE	
	LA LB	LC 4
ACTO		
	The second secon	