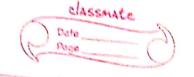
	and the same
1.41	Elasticity of supply
	the state of the s
	es = 1. change in 9ty suppy
	7. change in price of commodity
	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	= das · Ps de as
	ds as
300	the last a larger was taken and the same of the
	Production
	Si Salvet Anna II
->	Process of an algorithms in the second of th
	Process of converting inputs to outputs, with
	value addition (Pen making example, Plastic -> Pen)
	Contain and the
	Production
	(Long - Run (All are variables)
	Short - Run / Certain variables are Cived
	Short - Run (Certain variables are fixed and certain are variable) process of
-	Anything that and in machine
	Anything that goes in making is input,
	anything that comes out is output.
	(fixed)
	Short-Run - lacre of land, can't
-	be changed output may be diff
	may be det
	1 Hen
	10 Men Pen 10 Pen
	T T
Caqual	Labour is No. of machines
	a variable const.
+	in this case
-	
1	In long run everything is a variable
	V

f (L, R) fixed inputs

f (L, R) 4 Short - Run Short - Run Production $long - Run \rightarrow Q = f(L, R)$ Assumptions: O In short run, capital remains inclustic of irrespective of output 1) There is no change in input price is given. 3 In long run, L can substitute k and vice - versa. Harginal poli-Consider in short-run, Q = - L3 + 15 L2 + 10L Avg. pot wint C Total Product W.r.t labour MPL = dip = de L TPL = Q AP, = QL - - - b ---7 law of diminishing marginal return BPL HP TP. TO_ 111

Page ____



In short run, when more and more unit of a variable input is added to a certain amount of fixed input, the output will increase at a constant rate, the remain constant and then decreases.

In stage I: HPL reaches max., it ends when MPL = APL, APL is max at the end of stage-1

In stage II: Both HPL and APL are both decreasing, but rate of decrease of MPL is more. Stage 2 ends with MPL reaching zero, TPL is max

In stage III: Everythig is dec. No one wants produce at this stage

Reality - Until we reach stage - 2, we don't know that we were in stage - 1

.. The production is max (stopped) at the start of stage-2

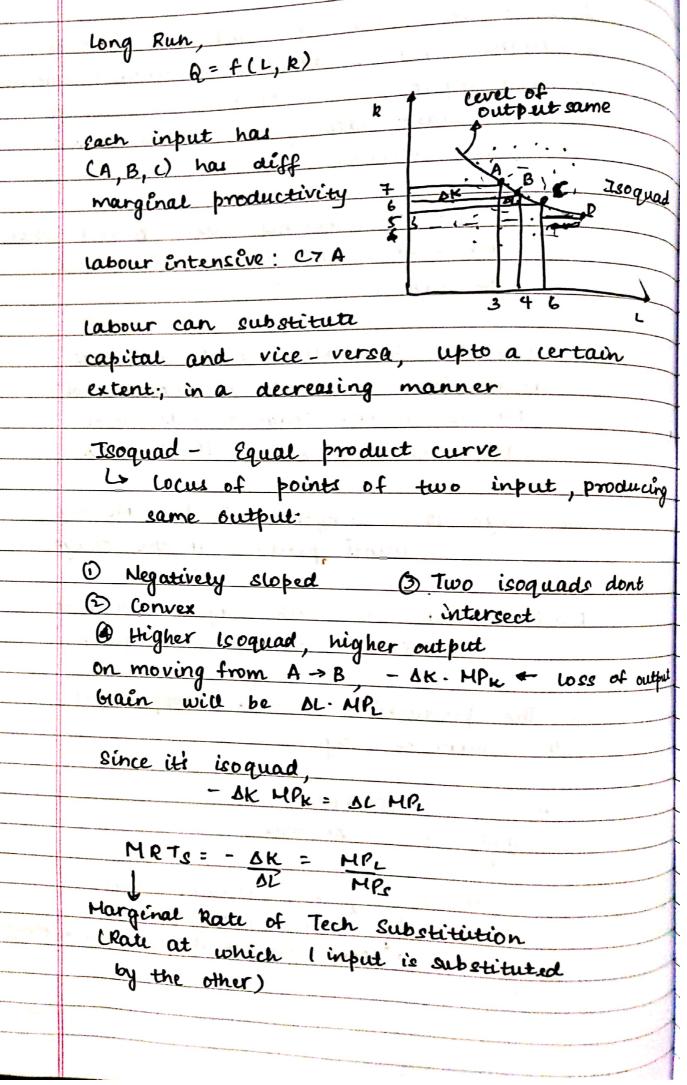
APL = - L2 + 15L + 10

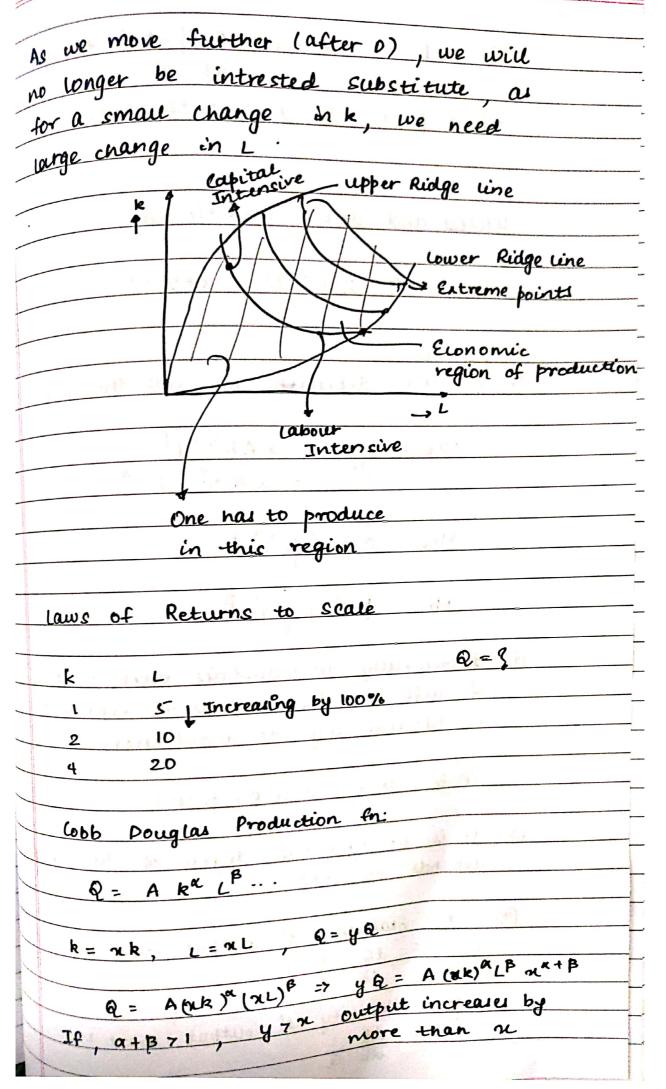
dAPL = 0 (At max)

-21 + 15 = 0 Stop production here.

L = 7.5 (Avg. pat is max)

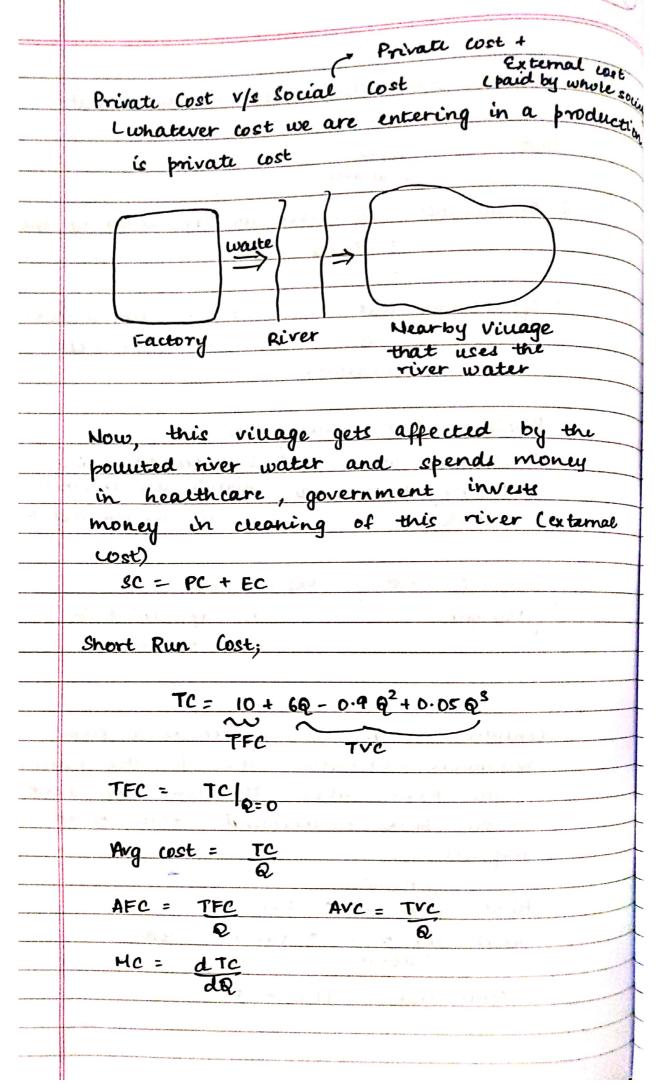
Look worry about this being a float

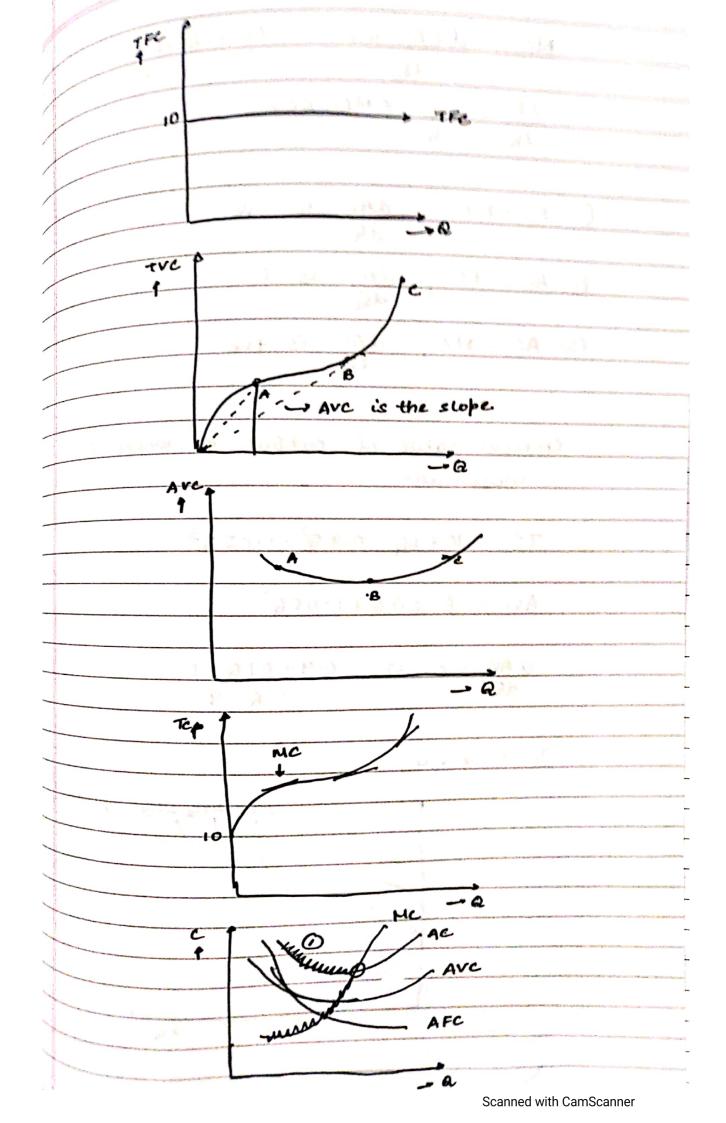




output increases same If a+ B = 1, R = y as n If at B<1, 12 y output decreases by n Unless and until mentioned, Q = A Ka LB a+B=L Properities () AP, HP dependens on both the inputs $\frac{MP_{k} = dQ = \alpha A k^{\alpha-1} L^{\beta}}{dk} = \alpha A k^{\alpha-1} L^{1-\alpha}$ MPR = AA (R) A-1 MPL = BA (R)1-B 2 So-Generally in industries there is lot of diff blw k, L, thus we represent in natural log, to avoid error. ma= mA+ a mk+ & mL 3) It is homogeneous, degree of homogenity depends on at B @ α = Elasicity of output w.r.t k B = Elasicity of output wr.t L

a, B -> Distributive share in the output.	\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\
Cost Fixed Variable	
0 Actual cost- whatever we are entering the business with	
Doppurtunity cost - It's not actually a wst. It's the return from next best alternative.	-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\
Business Cost Fue cost	
Unatever we Includes OC, min. Contering the business margin we expect to with remain in business, BC	\- \- \-
Implicit cost , Explicit cost C Hanager L Cost appearing in	
(Hanager (Cost appearing in books of account	
Consider you are the owner of a firm, you invest (sacrifice) 20k for the running of the firm this 20k isn't represent	
Consider you are the owner of a firm, you invest (sacrifice) 20k for the running of the firm, this 20k isn't represent in the books of account, thus it's an inaplicit cost.	
Consider you are the owner of a firm, you invest (sacrifice) 20k for the running of the firm, this 20k isn't represent in the books of account, thus it's an	





Mc = d(AC.Q) = AC + Q dAC (HC- AC) dAC = 1 dQ O ACTHC, dAC is -ve DAC = MC, dAC is D 3 AC = HC, dAC is tre Critical value of output is where AVC is minimum TC = 10+6Q - 0.9 Q2+0.05 Q3 AVC = 6-0.9 Q+0.05 Q2 - 0.9+01Q=D dAVC = 0 => 2=9 dQ In long run, इनद् इनद् इनद्

