SING 13.1

Pecall, For Q= S(K,L) = AKL (1-2)

METS = $\frac{25}{2K}$ = $\frac{PR}{A(1-4)} = \frac{PR}{PL}$ | Price Pario of Taputs

=> W L

CI-a) K

PL

COSTRIAL

Input Mix & I's we solve Ser K 3 L

=> <u>tabor (L)</u>

MPL = as = af = DQ = A(1-x)KL = In Cob-Donglis

MR = ate = ATE = P (Price) sme, TR = PQ

=> MRPL = PA(1-x)KL ~ Total Benedit (i.e. Revenue) od - MRX MRL adding one worker a

Note: In Homework 2 we got condinions of

MPL = ALI-A)Kala = PL

=> MRPL = PALI-WKL- = PL

=> Optimal anont of labor is employed

S1:de 13.2 (7/10) A Simple Labor - Leisure Model - Cobb - Douglas utility u(c,L) = c L'-d L = # of Leicue hours w/ Budget Constraint c = consumption goods C=Wh t T = Total hours available to work (borexample, in I along) @ zu nes tome to ware (ie T=ZU) In Sem of y= mx+b 81060 @ @ C=0 0=24~-~~ C= W24 => 244 - 16 24= レ

=> ump is