Assignment-3

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cost input combination Dnow, we suppose that required for 9=40 K=16 units = fixed Capital .. to produce same q=40, now we will need more labour, and cost, and we can find it as 9 = 4 KO.5 CO.5 40=4x(16)0.5 L0.5 with ud of he involved is 1.7. L= 6.25 units to go for minmocost, Slope of iso-cost slope of and c= (4 x 6.25)+(1x 16)

Line = isoquant (= 25+16=41 unit ind (C) = 41 units a constal at 16 units have given rise to below w 2. have given rise to belo where, MP = 0.59 and (*) labour usage inmensed 10592 = 0.592 HONE

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assumed as given en the question. . Our new ex input combination which minimizes east can be found with our formula: MPL - MPK : 059 059 LXW KXY 1. _1 = 1. . K = 2L now, 9=4K0.5,0.5 1.60 = 4 (21)0.5 0.5 1 = 10.61 units, and : K=2L=21.22 units seled of the medica sups i. This subsidy resulted in law or employment level increase from L=5+0 L=10.61 units and increase in capital ususe from k = 20 to k = 21.22 unit and cost for this new production level of 9=40 can be found as, $C = (2 \times 10.61) + (1 \times 21.22)$: (C= 42.44 Junits.

1 = 50 TS -10 & 1- 80