Dyla Blad ECON 2316

Cost Funtains + Competitive Supply Total cost: TC=WL+rK, TC=VC+FC (in SR) TC=VC (in LR)

-> in terms of quality of

Reall: MRTS = MPK

firm minimize cost at MRTS = T or ... Me = Me

Cost Milimi Febru

Higher =) higher Cost

HPK - Plug relexanter into production fundame

Example: Production fundam q= 15 Lo, w=10, r=40 Find optimed L, K for q = 600 MPL= 130.5. 0.56 -0.5 = 32 MPK= 6.515 -0.5 -0.5 = 3K MRTS = 150.5 | K $\frac{K}{L} = \frac{\omega}{V} = \frac{10}{40}$ 50 4015=101=>(=41) 100= 150.5. (415)0.5 = 2K => K= 50, L=200 What is the total cost at this 15, L?

TC = 101+4015 = 2000 + 2000 = \$4000

min wl+rks.t.f(15,6)=40 Corresposing Lagragon: D= WL+rK+2[40-f(K, L)] - 2=2, remarry without TC=Cz 10 LRTC

Short Run In the SR, cost may not be optimized Ko SRespon path, Kis constant Back to the Example 2: In the short run, where we set 18=50, what is TO when 2=200? 4=150.5 (0.5, w=10, r=40) 200 = 50° 5 1° 5 = \(\frac{100}{50^{0.5}} \) = \(\frac{100}{50^{0.5}} \) = \(\frac{100}{50^{0.5}} \) = \(\frac{100}{50^{0.5}} \) TC = WL+rK= 10(800) + 40(50) = 8000 + 2000 = \$10000

Barli to the Example:

for any 2, what is TC? TC = 10L + 40K, L = 4K $2 = K^{0.5} \cdot (4K)^{0.5} = 2K$, $K = \frac{9}{2}$, L = 29 $TC = 10(29) + 40(\frac{9}{2})$ TC = 209 + 209 = TC = 409Thus KIn the K, cost may not be optimized K

(In the LR, when 15 is flexible, soft @ q=200 Sport Un Total Cost Fredh for ay q, L= 50, TC=10((50) + 40.50 TC= = + 2000) (q = 50 ° L 0.5 Variable fixed L= 50 or => L = 50 cost! cost! LR, only VC SAC (SR ang cost)
-Avg cost of production when 15 is fixed LAC (LR ang wort)

-Arg cost of production when all impris are variable

-Lorent S.R ang total cost for every land of compiled [M((IR magnet cost))] Average Cost Comes in LR us. SR 4=163 K=162 K=163 SR ATC cong Co,1,2 are option economy of sale

Economy of Scale - Sull discounts - High up hat fixed cost Diseconomis of Scale - Coordnehm inefficiency - Month proc / monopsony - Incentre problems l'asymmetric Lynamic Charpin Cst MC as AC can fall over time