Week 10 Tuesday, 2 April 2024 18:33 T = TR- TC only opportunity costs. TR=TC LRS: Q= F(k, L) $(K,L) < F(\Theta K, \Theta L)$ f(ok,oL) in DRS: OF(K,L) > F(OK,OL) 0 = E(R, L)) 0 9 = 8 2K +52) = F(0K,94) 2K+5L F (8) = 8K + wL 8 = f(K,2) Q2)) Q= KL 8 - 100, W = 15 Po = 500 min & L + WL = C s.t. 8 = KL for optimie zation! MPK = MPL MP L -MP/== [00 lusstituting (3) in egn (2), Qo = 152 = 500 7 L = 500 × 100 => 1= 57-73 == 58 8.66 29 : K = 15 x 57.73 = 2) Q = 500 = KL CSR = 2K+ WL Csr - (100 x 5) + (15 x 180) = (100 x 8-66) + (15 x 57-73) 2 -Q3 Q= 500 12. 23 MPK ML $MP_{K} = \frac{2}{\sqrt{K}}$ $\frac{1}{2} \frac{2}{\sqrt{k}}$ - 2 JK d= B expansion pa Qo = 4 JK. RK Po = 4KTEW K = Q. Tw $L = \frac{2}{W} L = \frac{90}{4} \sqrt{\frac{1}{2}} \cdot \frac{2}{W}$ L= 80 12 C = 2. 8. W + W. 8. TR 4 \ 2 C = Q= [Trw + Trw]

C = Qo Trw