

week 5 3/23

2. $q = 10L^{0.5} K^{0.5}$	$q = 2L + K$	$q = \min(2L, K)$	$q = \max(2L, K)$
TC函數	0.5q	1.5q	0.5q
AC函數	0.5	1.5	0.5
MC函數	0.5	1.5	0.5

3. (A) 生產成本  $q = \frac{1}{2} = \frac{K}{4} \Rightarrow L = 2q \quad K = 4q \Rightarrow C = 1 \times 2q + 2 \times 4q = 12q$   
 $TC_A = 10q + 40$  B 技術之成本函數 (TCB)  
 $= \text{生產 cost} + \text{權利金 cost}$

$TC_B = 100$

(B)  $q = 20 \quad TC_A = 240 \quad TC_B = 260$  應買 A

(C)  $q = 40 \quad TC_A = 440 \quad TC_B = 420$  應買 B

(D) 令  $TC_A < TC_B \quad q < 30$  產量低於 30 單位應買 A