

隨堂 3

(A) A 技術 $q = \frac{1}{2} = \frac{14}{4}$
 $L = 2q \quad K = 4q$

$$TCA = 10q + 40$$

B 技術

$$TCB = 8q + 100 \quad L = 4q \quad K = 2q$$

(B) $q = 20 \quad TCA = 240 \quad TCB = 260$

要買 A 技術 #

(C) $q = 40 \quad TCA = 440 \quad TCB = 420$

買 B 技術 #

(D) 令 $TCA < TCB$, $q < 30$

\Rightarrow 買 A 技術

隨堂 4

(A) $q = 10L^{0.5}K^{0.5} \rightarrow L^* \geq q^2/100K$

$$STC = 10L^* + 10K = (q^2/10K) + 10K$$

$$AC = (q/10K) + (10K/q) \Rightarrow MC = q/5K \#$$

(B) $\frac{STC}{K} = \frac{q^2}{10K^2} + 10$, $0 \approx K = \frac{q}{10}$

$$TC = STC(K = \frac{q}{10}) = \frac{q^2}{10(q/10)} + 10 \frac{q}{10} = 2q \#$$