

Week 3

A108260087

吳尚謙

1.

$$(A) = LTC = 10L + 10k$$

$$(B) = MRTS_{Lk} = \frac{k}{L}$$

(C)  $L \uparrow k \downarrow \Rightarrow$  凸向原點, Yes! #

$$(D) \begin{cases} \frac{k}{L} = \frac{10}{10} \text{ (相切條件)} \\ q = 10L^{0.5} k^{0.5} \end{cases} \Rightarrow L^* = k^* = 0.1q$$

$$(E) TC = 2q, AC = 2, MC = 2$$

$$(F) TC = 2q, 10 \text{ 代入} \Rightarrow 2 \times 10 = 20$$

3. (A)

Week 4

$$A \text{ 技術} : TC = 10q + 40$$

$$B \text{ 技術} : TC = 8q + 100$$

$$(B) \text{ 代 (A)} = 240 < \text{代 (C)} = 260 \Rightarrow A$$

(C)

$$\text{代 (A)} = 440 > \text{代 (B)} = 420, B$$

(D)

$$\text{令 } TC_A = TC_B$$

$$\Rightarrow 10q + 40 = 8q + 100$$

$$2q = 60 \quad q = 30$$

$$A = 30$$