

Subject ▶

Date ▶

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Week 4

1 A.  $C = 10L + 10K$

B.  $MRTS_K = K/L$   $MRTS =$  等產曲线的  
初級斜率  $\frac{10 \times \frac{1}{2} L^{-\frac{1}{2}} K^{\frac{1}{2}}}{10 \times \frac{1}{2} L^{-\frac{1}{2}} K^{\frac{1}{2}}}$

C  $L \uparrow$  時  $K \downarrow$  時  $MRTS_K$  下降 1 故等產線凸向原點  $\frac{d(K/L)}{dL} = -K^2$ 

D 條件要素需求曲線

$$\left\{ \frac{K}{L} = \frac{10}{10} \quad q = 10 C^{0.5} K^{0.5} \Rightarrow L^* K^* = 0.18 \right.$$

E  $T_C = 29$

$AC = 2$

$MC = 2$

F  $T_C(10) = 2 \times 10 = 20$