

(Week 3)

5. (a)  $MRTS = \frac{K}{L}$   $\sigma = \frac{K/L}{K/L} = 1$

(b)  $MRTS = 2$   $\frac{K/L}{2} = \infty$

8. (1) Yes

(2)  $MRTS = \frac{MRK}{MPL} = \frac{2}{3}$

(3)  $\times \frac{K/L}{3/2} = \infty$

9. (a)  $\lambda q < (\lambda L^a + \lambda K^a)^b \rightarrow$  遞增

(b)  $\lambda \ln q = \lambda 5 + 0.5 \lambda \ln L + 0.2 \lambda \ln K \rightarrow$  固定

(c)  $\lambda q [\text{MTH} \{ \lambda aL, \lambda bK \}]^a \rightarrow \lambda^a [\text{MTH} aL, bK]^a \rightarrow$  遞減