

Week 3 3/8 A107260058 / 經三乙 / 楊翰翰

5. (a)  $F(K, L) = K^{\frac{1}{2}} L^{\frac{1}{2}}$

$$MRTS = \frac{0.5 L^{-0.5} K^{0.5}}{0.5 L^{0.5} K^{-0.5}} = \frac{K}{L}$$

$$\sigma = \frac{\frac{K}{L}}{\frac{K}{L}} = 1$$

(b)  $F(K, L) = 2K + L$

$$MRTS = \frac{MP_L}{MP_K} = \frac{1}{2}$$

$$\sigma = \infty$$

8.  $Q = 3K + 2L$

$$MRTS = \frac{2}{3}$$

$$Ans = (3)$$

9. (A) 規模報酬遞增

(B) 規模報酬遞增

(C) 固定規模報酬