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

$6 = \frac{\frac{K}{L}}{\frac{K}{L}} = 1$

(b) $MRTS = 2$

$\frac{K}{2} = \infty$

8. (1) ✓

(2) X $\quad MRTS = \frac{MRK}{MRL} = \frac{2}{3}$

(3) X $\quad \frac{\frac{K}{L}}{\frac{3}{2}} = \infty$

9. (a) $\lambda Q < (\lambda L^{\alpha} + \lambda K^{\alpha})^{\beta}$ ⇒ 遞增

(b) $\lambda \ln Q = \lambda 5 + 0.5\lambda \ln L + 0.2\lambda \ln K$ ⇒ 固定

(c) $\lambda Q \quad \{Min[\lambda aL, \lambda bk]\}^{\alpha} > \lambda^{\alpha}[Min aL, bk]^{\alpha}$ ⇒ 遞減