

(1) $q = 5LK$	(2) $q = 2L + 3K$	(3) $q = \min[L, K]$	(4) $q = (0.2L^{0.5} + 0.8K^{0.5})^2$
$MPL = 5K$	$MPL = 2$	折衷無法微分	$MPL = 0.2(\Delta)^3 L^{-1.5}$
$MPK = 5L$	$MPK = 3$		$MPK = 0.8(\Delta)^3 K^{-1.5}$
K/L	$2/3$	1 or 0 or ∞	$\Delta = (0.2L^{0.5} + 0.8K^{0.5})$
遞增	固定	固定	$\frac{0.2}{0.8} \Delta = \frac{1}{4} \left(\frac{K}{L}\right)^{1.5}$
$\epsilon_L = 1$	$\epsilon_L = \frac{2L}{2L+3K}$	沒有彈性	固定
$\epsilon_K = 1$	$\epsilon_K = \frac{3K}{2L+3K}$	$\epsilon\phi = 1$	$\epsilon_L = \frac{0.2L^{-0.5}}{0.2L^{-0.5} + 0.8K^{-0.5}}$
$\epsilon\phi = 1+1=2$	$\epsilon\phi = \frac{2L}{2L+3K} + \frac{3K}{2L+3K} = 1$	$MPT_S = 0$	$\epsilon_K = \frac{0.8K^{-0.5}}{0.2L^{-0.5} + 0.8K^{-0.5}}$
$\epsilon^{LK} = 1$	$\epsilon^{LK} = \infty$	$\epsilon^{LK} = 0$	$\epsilon\phi = \frac{0.2L^{-0.5} + 0.8K^{-0.5}}{0.2L^{-0.5} + 0.8K^{-0.5}} = 1$
			$\epsilon^{LK} = 2/3$

Date

$$Q = 3K + 2L$$

(1) 是 CRS K 和 L 同時增加 λ 倍 = λL and λK

$$F(\lambda K, \lambda L) = 3(\lambda K) + 2(\lambda L) = \lambda(3K + 2L) = \lambda Q$$

產出增加 λ 倍 為 CRS

(2) MPL and MPK 都是固定 不是 DRS

$$(3) MRTS = \frac{MPL}{MPK} = \frac{2}{3} \text{ 為固定值}$$