

10/260050 嘉宇昕

	$q = 5LK$	$q = 2L + 3K$	$q = \min\{L, K\}$	$q = (0.2L^{-\frac{1}{2}} + 0.8K^{-\frac{1}{2}})^{-2}$
MP	$MP_L = 5K$ $MP_K = 5L$	$MP_L = 2$ $MP_K = 3$	X	$MP_L = 0.2L^{\frac{3}{2}}(0.2L^{-\frac{1}{2}} + 0.8K^{-\frac{1}{2}})^3$ $MP_K = 0.8K^{\frac{3}{2}}(0.2L^{-\frac{1}{2}} + 0.8K^{-\frac{1}{2}})^3$
$MRTS = \frac{MP_L}{MP_K}$	$\frac{K}{L}$	$\frac{2}{3}$	1, 0, ∞	$\frac{1}{4} \left(\frac{K}{L}\right)^{-1.5}$
規模報酬	IRS	CRS	CRS	CRS
產量彈性 ($\epsilon_L = \frac{MP_L}{AP_L}$)	$\epsilon_L = \epsilon_K = 1$	$\epsilon_L = \frac{2L}{2L+3K}$ $\epsilon_K = \frac{3K}{2L+3K}$	X	$\epsilon_L = 0.2L^{\frac{1}{2}}(0.2L^{\frac{1}{2}} + 0.8K^{\frac{1}{2}})^{-1}$ $\epsilon_K = 0.8K^{\frac{1}{2}}(0.2L^{\frac{1}{2}} + 0.8K^{\frac{1}{2}})^{-1}$
生產力彈性 ($\epsilon_L + \epsilon_K$)	2	1	1	1
替代彈性 ($\sigma = \frac{d \ln \frac{K}{L}}{d \ln MRTS}$)	1	∞	0	$\frac{2}{3}$
	$AP_L = 5K$ $AP_K = 5L$	$AP_L = \frac{2L+3K}{L}$ $AP_K = \frac{2L+3K}{K}$		$AP_L = \frac{(0.2L^{\frac{1}{2}} + 0.8K^{\frac{1}{2}})^{-2}}{L}$ $AP_K = \frac{(0.2L^{\frac{1}{2}} + 0.8K^{\frac{1}{2}})^{-2}}{K}$

21 $Q = 3K + 2L$

(1) $\epsilon_L = \frac{2L}{3K+2L}$
 $\epsilon_K = \frac{3K}{3K+2L}$

$\epsilon^D = \epsilon_L + \epsilon_K = 1 \Rightarrow CRS$

(2) $MP_L = 2$
 $MP_K = 3$
為固定

(3) $MRTS = \frac{MP_L}{MP_K} = \frac{2}{3}$
為固定