

個經 HW,

①	K	L	Q	AP _L	AP _K	MP _L
	20	0	0	0	0	0
	20	5	20	4	1	4
	20	10	43	4.3	2.15	4.6
	20	15	57	3.8	2.85	2.8
	20	20	67	3.35	3.35	2
	20	25	75	3	3.75	1.6
			Q			MP _L = $\frac{\Delta Q}{\Delta L}$
			AP _L = $\frac{Q}{L}$			AP _K = $\frac{Q}{K}$

②

$$\textcircled{1} \quad MP_L = \frac{dQ}{dL} = 21 + 18L - 3L^2$$

$$\frac{dMP_L}{dL} = 18 - 6L, \quad L = 3$$

②

$$21 + 18L - 3L^2 = 0$$

$$7 + 6L - L^2 = 0 \quad L = 7$$

$$(L - 7)(L + 1) = 0$$

③ ∵ MP = AP

$$21 + 18L - 3L^2 = 21 + 9L - L^2$$

$$9L = 2L^2$$

$$L = 4.5$$

$$\textcircled{3} \quad AP_L = 500/10 = 50$$

$$MP_L = 50/10 = 5$$

$$AP_K = 500/5 = 100$$

$$MP_K = 100/5 = 20$$

$$\textcircled{4} \quad \text{生産関数} \quad Q = f(L, K)$$

$$\textcircled{A} \quad \frac{5}{10} \times \frac{1}{2}$$

$$\textcircled{B} \quad Q = \min \left[\frac{L}{2}, \frac{K}{1} \right]$$