

④

$$(A) MR = 100 - 2Q = 20 \quad MC = Q^k = 40 \quad p^* = 60 \quad ML = \frac{60-20}{60} = \frac{2}{3}$$

$$\pi^* = (40 \times 60) - (30 + 20 \times 40) = 1570$$

$$(B) \frac{1}{2} (40 \times 40) = 800$$

$$(C) \frac{P-MC}{P} = \frac{60-20}{60} = \frac{2}{3}$$

$$(D) MR = MC + 10$$

$$100 - 2Q = 30 \quad Q^* = 35 \quad p^* = 65$$

$$(E) (1 - 10\%)MR = MC \Leftrightarrow 0.9(100 - 2Q) = 20$$

$$(F) \pi^* = 1570 - 1000 = 570$$

$$(G) Q^* = 40 \quad p^* = 60 \quad (0.8 \times 1570) = 1256$$

$$(H) P = MC \quad 100 - 2Q = 20 \quad Q^* = 80 \quad p^* = 20 \quad \text{虧損} = (80 \times 20) - (30 + 70 \times 80) = -30$$

每部損失 = 0

⑤

$$MR = P(1 - \frac{1}{Ed})$$

$$MR = 4MC(1 - \frac{1}{Ed})$$

$$MC = 4MC(1 - \frac{1}{Ed})$$

$$Ed = \frac{4}{3}$$

⑥

$$\text{對 } t \text{ 設 } P = a - bq \text{ 則 } MR = a - 2bq$$

$$MR = MC + t \Rightarrow a - 2bq = k + t \Rightarrow Q^* = \frac{a - (k+t)}{2b}$$

$$p^* = a - \frac{a - (k+t)}{2} = \frac{a + (k+t)}{2}$$

當 $t=0$

$$P_0 = \frac{a+k}{2} \quad p^* - P_0 = \Delta p = \frac{t}{2}$$

⑦

$$\text{令 } MC_A = MC_B = MR \quad 4q_A = 8q_B = 280 - 2q_A - 2q_B \quad q_A = 40 \quad q_B = 20$$

$$P = 220$$