

Week 12

No.

Date

4.

$$\textcircled{A} \quad MR = 100 - 2q = 20 = MC$$

$$\left[\begin{array}{l} q^* = 40 \\ p^* = 60 \end{array} \right.$$

$$MC = \frac{60 - 20}{60} = \frac{2}{3}$$

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

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

$$\textcircled{C} \quad \text{價格} = \frac{60 - 20}{60} = \frac{2}{3}$$

$$\textcircled{D} \quad MR = MC + 10$$

$$100 - 2q = 30$$

$$\left[\begin{array}{l} q^* = 35 \\ p^* = 65 \end{array} \right.$$

$$p^* = 65$$

$$\textcircled{E} \quad (1 - 10\%)MR = MC = 0.9(100 - 2q) = 20 \left[\begin{array}{l} q^* = 40 \\ p^* = 60 \end{array} \right.$$

$$\pi^* = 1570 - 1000 = 570$$

⑦

$$q^* = 40 \quad p^* = 60$$

$$0.8 \times 1570 = 1256$$

⑧

$$p = MC$$

$$100 - 2q = 20$$

$$\left[\begin{array}{l} q^* = 80 \\ p^* = 20 \end{array} \right.$$

$$p^* = 20$$

$$\text{虧損} = (80 \times 20) - (30 + 20 \times 80) = -30$$

$$\text{無謂損失} = 0$$

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$$5. \quad MR = P \left[1 - \frac{1}{\epsilon_d} \right]$$

$$\rightarrow MR = 4MC \left[1 - \frac{1}{\epsilon_d} \right]$$

$$\rightarrow MC = 4MC \left[1 - \frac{1}{\epsilon_d} \right]$$

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

$$6. \quad P = a - bq \quad MR = MC + t$$

$$MR = a - 2bq \quad \rightarrow a - 2bq = k + t = q^* = \frac{a - (k+t)}{2b}$$

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

$$\text{當 } t=0$$

$$p_0 = \frac{a+k}{2}, \quad p^* - p_0 = \Delta p = \frac{t}{2}$$

$$7. \quad MC_A = MC_B = MR$$

$$4q_A = 8q_B = 280 \rightarrow q_A = 2q_B$$

$$\begin{cases} q_A = 40 \\ q_B = 20 \end{cases}$$

$$p = 220$$