

4.

(A)

$$MR = 100 - 2q = 20 = MC \Rightarrow 4 - 40 \quad p = 60 \quad MC = \frac{60 - 20}{60} = \frac{2}{3}$$

$$LP \quad \frac{1}{2} \times 40 \times 40 = 800$$

$$CL \quad \frac{60 - 20}{60} = \frac{2}{3}$$

$$CD) \quad \begin{cases} MR = MC + 10 \\ 100 - 2q = 30 \end{cases} \quad q = 35 \quad p = 65$$

$$TV = (35 \times 65) - (30 + 20 \times 35) - 10 \times 35 = 1195$$

$$(E) \quad (1 - 10\%) MR = MC \quad 0.9(100 - 2q) = 20 \quad q = \frac{150}{9} \quad p = 30$$

$$(F) \quad 1570 - 1000 = 570$$

$$(G) \quad 0.8 \times 1570 = 1256$$

$$(H) \quad (80 \times 20) - (30 + 20 \times 80) = -30 \Rightarrow 0 \quad (\text{無謂損失})$$

$$5. \quad MR = P \left(1 - \frac{1}{Ed}\right) = 4MC \left[1 - \frac{1}{Ed}\right] \quad Ed = \frac{4}{3}$$

$$6. \quad P = a - bq \quad MR = a - 2bq$$

$$MR = MC + t \Leftrightarrow a - 2bq = k + t \quad q = \frac{a - (k + t)}{2b}$$

$$P = \frac{a + (k + t)}{2} \quad P_0 = \frac{a + k}{2}$$

$$P^* - P_0 = \Delta P = \frac{t}{2}$$

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

$$4 \quad q_A = 8 \quad q_P = 250 - 2q_A - 2q_B \quad q_A = 0 \quad q_B = 0$$

$$P = 220$$