

4-4)

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

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

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

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

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

$$(D) \quad 100 - 2q = 30 \quad q = 35 \quad p = 65$$

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

$$(E) \quad (1 - 10\%) MR = MC \quad 0.9(100 - 2q) = 20 \quad q = \frac{50}{9} \quad p = 350$$

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

$$(G) \quad 28 \times 1570 = 1256$$

$$(H) \quad (80 \times 20) - (30 + 20 \times 80) = -30 \Rightarrow 0 \text{ (亏损损失)}$$

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

$$= 4MC \left[1 - \frac{1}{Ed} \right] \quad Ed = \frac{4}{3}$$

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

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

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

$$7. \quad MCA = MCB = MR$$

$$4QA = 8QB = 280 - 2QA - 2QB \quad QA = 40 \quad QB = 20 \quad P = 220$$