

t, ④

$$TR = p \cdot q = (100 - q) \cdot q$$

$$MR = 100 - 2q$$

$$MR = MC$$

$$p = 100 - q$$

$$C = 30 + 20q$$

$$MC = 30 + 20q$$

$$q = 20$$

$$100 - 2q = 20$$

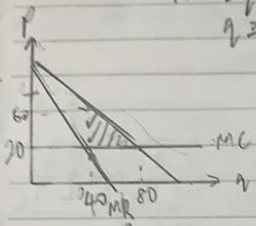
$$q = 40$$

$$p = 60$$

$$\pi = TR - MC$$

$$2400 - (30 + 20(40))$$

$$= 1570$$



B,

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

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

$$D, MR = MC + 10$$

$$100 - 2q = 30$$

$$q = 35$$

$$p = 65$$

$$\pi = TR - TC = 10q$$

$$(35 \cdot 65) - [30 + 20(35)] - (10 \cdot 35)$$

$$= 1195$$

$$E, (1 - 0.1) MR$$

$$0.9(100 - 2q)$$

$$MR = 90 - \frac{2}{5}q$$

$$q = \frac{350}{9}$$

$$p = \frac{550}{9}$$

$$\pi = TR - TC$$

$$\left(\frac{350}{9} \cdot \frac{550}{9}\right) - [30 + 20(\frac{350}{9})]$$

$$2376.84321 - 807.8$$

$$= 1568.765$$

$$F, q = 40$$

$$p = 60$$

無影響

$$\pi = TR - TC = 1000$$

$$= 1570 - 1000$$

$$= 570$$

$$MR = 100 - 2q = MC = 30 + 20q$$

$$G, MR = MC$$

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

無影響

$$\pi = TR - TC$$

$$= 1286$$

$$H, P = MC$$

$$100 - q = 20$$

$$q = 80$$

$$p = 20$$

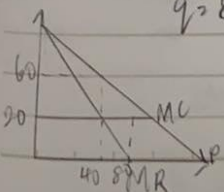
$$\pi = \frac{TR}{P} - \frac{TC}{P}$$

$$(80 \cdot 20) - (30 + 20(80))$$

$$= 1600 - 1630$$

$$= -30$$

no dead weight loss



$$p = 120 - q \quad TC = 2q^2$$

$$A \quad TR = (120 - q)q \quad MC = 4q$$

$$= 120q - q^2$$

$$MR = 120 - 2q$$

$$120 - 2q = 4q$$

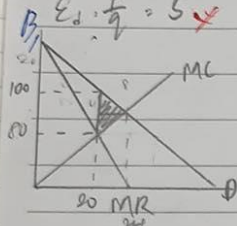
$$q = 20 \quad p = 100$$

$$\pi = TR - TC$$

$$120(20) - (20)^2 = 2(20)^2$$

$$= 1200$$

$$E_d \cdot \frac{p}{q} = 5 \quad MC = 80$$



$$\frac{1}{2} \times 20 \times 4$$

$$= 40$$

$$TS = \frac{1}{2} \times p \times q$$

$$G, p = MC$$

$$120 - q = 4q$$

$$q = 24 \quad p = 96$$

$$\pi = TR - TC$$

$$(24 \cdot 96) - 2(24)^2 = 1152$$

$$d, p = AC$$

$$120 - q = 2q$$

$$q = 40 \quad p = 80$$

$$\pi = \frac{TR}{(40 \cdot 80)} - \frac{TC}{2(40)^2}$$

$$= 0$$

$$TS = CS + PS \approx \frac{CS + \pi}{800 + 0}$$

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

G,

H,

