

T4:

$$TR = P \times q$$

$$(A) \therefore (100 - q)q = -q^2 + 100q$$

$$MR = -2q + 100$$

$$MC = 20$$

$$\Rightarrow MC = MR$$

$$\Rightarrow -2q + 100 = 20$$

$$q^* = 40$$

$$\Rightarrow P^* = 60$$

$$\pi = TR - TC \Rightarrow \pi = -q^2 + 100q^* - 20 - 20q^*$$

$$= 200$$

$$(B) \therefore q^* = 40 \Rightarrow P = 20 / Q = 80$$

$$\therefore \text{无谓损失} = (60 - 20) \times 80 \times \frac{1}{2}$$

$$= 1600$$

$$(C) L = 1 - \frac{MC}{P} = \frac{2}{3}$$

$$(D) \text{ ~~MR~~ } TR' = (100 - q - 10q)q = -11q^2 + 100q$$

$$MR' = -22q + 100$$

$$\Rightarrow q^{*'} = 3.636 \Rightarrow P^* = 96.364 \Rightarrow \pi = TR' - TC = 115.45$$

$$(E) TR_2 = ((100 - q) - 10\%(100 - q))q = -0.9q^2 + 90q$$

$$MR' = -1.8q + 90$$

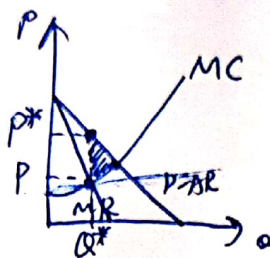
$$\Rightarrow q^* = 38.89 \Rightarrow P^* = 61.11$$

$$(F) TR_3 = (100 - q - 1000)q = -q^2 - 900q$$

$$MR_3' = -2q - 900$$

$$\Rightarrow q^* = 460$$

(G)



$$T5: P = 4MC$$

$$\Rightarrow \frac{P}{MC} = \frac{1}{1 - \frac{1}{\epsilon}}$$

$$\Rightarrow \epsilon = \frac{4}{3}$$

T6:

$$MC = MR$$

$$\Rightarrow K = (PQ - TC)$$

T7:

$$TR = P \times q = (280 - q)q = -q^2 + 280q$$

$$\Rightarrow MR = -2q + 280$$

$$\begin{cases} MCA = 4q_A \\ MCB = 8q_A \end{cases}$$

$$\Rightarrow MR = MCA \parallel \Rightarrow MR = MCB \text{ 取 } \frac{1}{2}$$

$$q_A^* = 46.67 \Rightarrow q_{A_2}^* = 28$$

$$q_{A_1}^* = 46.67 \Rightarrow q_{A_2}^* = 28$$

↓

$$AJ P = 233.33$$

$$BJ P = 252$$

