

T4:
 $TR = P \times q$
 (A) $\therefore (100 - q)q = -q^2 + 100q$
 $MR = -2q + 100$
 $MC = .20$

$\Rightarrow MC = MR$

$\Rightarrow -2q + 100 = 20$

$q^* = 40$

$\Rightarrow P^* = 60$

$\pi = TR - TC \Rightarrow \pi = -q^2 + 100q^* - 30 - 20q^*$
 $= 2010$

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

$\therefore \text{无谓损失} = (60 - 20) \times 80 \times \frac{1}{2}$
 $= 1600$

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

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

$MR' = -1.8q + 90$

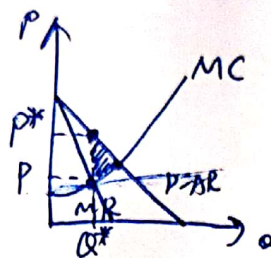
$\Rightarrow q^* = 38.89 \Rightarrow P^* = 61.11$

(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:

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

$\Rightarrow MR = -2q + 280$

$MCA = 4q_A$

$MCB = 8q_B$

$\Rightarrow MR = MCA \parallel \Rightarrow MR = MCB$ 取中

$q_{A1}^* = 46.67 \Rightarrow q_{A2}^* = 28$

\Downarrow
 AJ $P = 233.33$
 BJ $P = 252$

