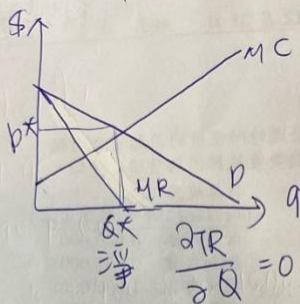
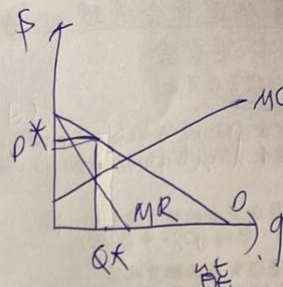


$$TR - TC = P(Q)Q - A(Q|Q)$$

$$= (P - AC)Q = 0$$



$$\frac{\partial TR}{\partial Q} = 0$$



$$\text{Max } \pi = TR - TC$$

$$\frac{\partial \pi}{\partial Q} = 0 \Rightarrow MR = MC$$

2)

(A)

$$\begin{cases} P = a - bQ \rightarrow \text{Max } \pi \\ Q^* \rightarrow P^* \end{cases}$$

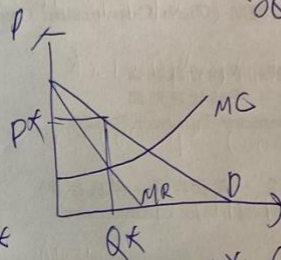
$$MC = c + eQ \rightarrow MR = MC \Rightarrow P(Q^*) = P^*$$

$$\pi = TR - TC$$

$$= (a - bQ)Q - \square$$

$$\frac{\partial \pi}{\partial Q} = 0 \Rightarrow MR = MC$$

$$a - 2bQ = c + eQ$$



$$Q^* = \frac{a - c}{2b + e}$$

$$P^* = a - bQ^*$$

$$= a - b \left(\frac{a - c}{2b + e} \right)$$

$$= \frac{a(2b + e) - b(a - c)}{2b + e}$$

3)