

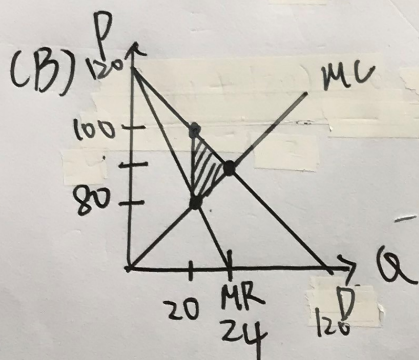
c、因 $e \geq 0$ ，且需求曲線 $P = a - bQ$ 為負斜率，故 $b \geq 0$

$$p^* = \frac{a(b+e)+bc}{2b+e}, \quad a \uparrow \rightarrow p^* \uparrow$$

3、(A) $MR = MC \rightarrow 120 - 2q = 4q \rightarrow q^* = 20; p^* = 100$

$$\pi^* = TR - TC = 100 \times 20 - 2(20)^2 = 1200$$

$$Ed = \frac{dQ/Q}{dP/P} = \frac{100}{20} = 5; L.I. = \frac{P-MC}{P} = \frac{100-80}{100} = 0.2$$



P	0	120
Q	120	0

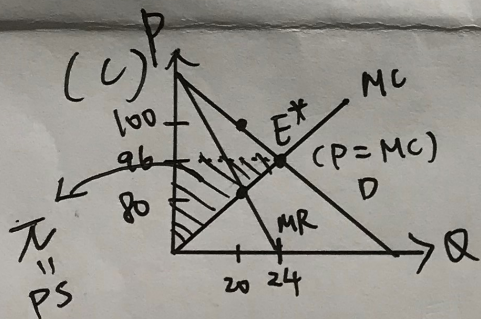
$$4q = 120 - q$$

$$120 - 2 \cdot 20 = 80$$

$$q^* = 24$$

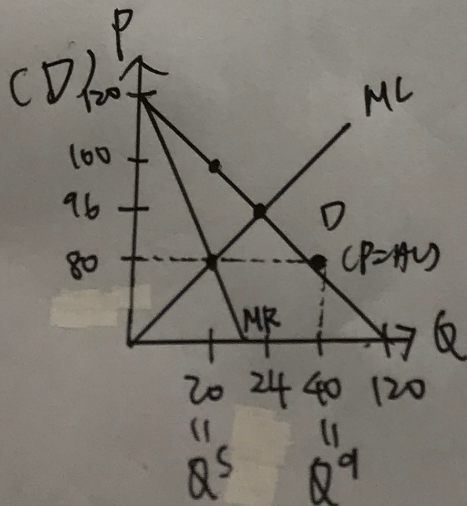
$$p^* = 96$$

$$\text{無謂損失} = \frac{(100-80)(24-20)}{2} = 40$$



$$p^* = 96; Q^* = 24;$$

$$DWL = 0; \pi = \frac{96 \times 24}{2} = 1152$$



$$p = AC = 2q = 120 - q$$

$$\rightarrow q = 40, p = 80$$

$$DWL = \frac{120 \cdot 24}{2} - \frac{(120-80) \cdot 40}{2} = 640$$