(H) 以完競定价，損失？，DWL？

$P = MC = 20 \Rightarrow q^* = 80 \quad p^* = 20$

$\pi^* = -30$.

$DWL = 0$.

P適 6. $D: P = 120 - q$. $TC = 2q^2$

(A) $p^*, q^*, \pi^*, \varepsilon_d; L$

$TR = P \times Q = 120q - q^2$

$\begin{cases} MR = 120 - 2q \\ MC = 4q \end{cases} \Rightarrow q^* = 20$

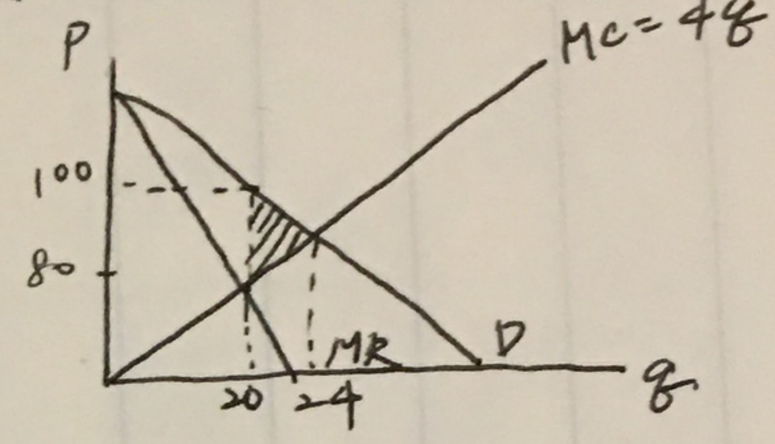
$p^* = 100$ 井

$\pi^* = 2400 - 400 - 800 = 1200$ 井

$L = \frac{P - MC}{P} = \frac{100 - 80}{100} = \frac{1}{5}$ 井

$\varepsilon_d = \frac{5}{1} = 5$ 井

(B) DWL.



$DWL = \frac{20 \times 4}{2} = 40$ 井

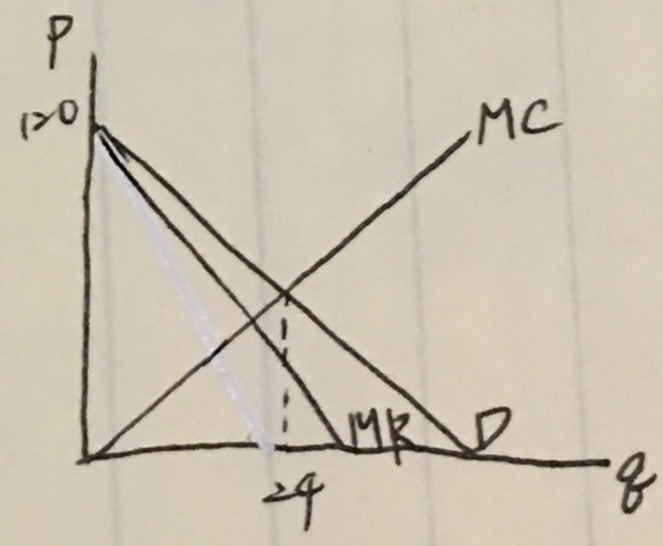
(C) 以 MC 訂价，p^*, q^*, π^*, DWL

$P = MC$ [完競]

$120 - q = 4q \Rightarrow q^* = 24$

$p^* = 96$ 井

$\pi^* = 96 \times 24 - 2 \times 24 = 1152$ 井



$DWL = 0$ 井

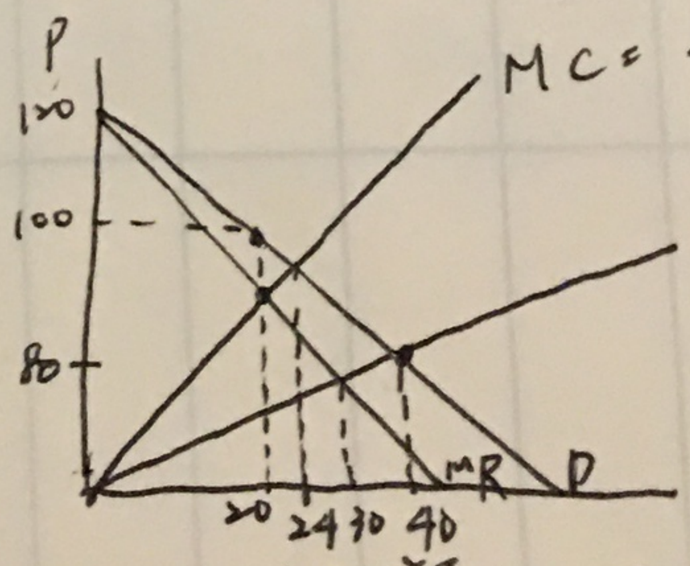
(D) 以 AC 訂价，p^*, q^*, π^*, DWL.

$P = AC$

$120 - q = 2q \Rightarrow q^* = 40$

$p^* = 80$. 井

$\pi^* = 40 \times 80 - 2 \times 40^2 = 0$ 井



$DWL = \frac{120 \times 24}{2} - \frac{40 \times 40}{2} = 640$ 井