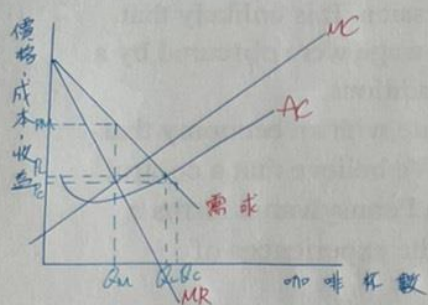


Week 11 獨佔

1.



悟空會根據

→ AC 與 D 交點訂出 (P_c, Q_c)

→ $MR = 0$ 決定出 Q_c 的產量，價格會訂在 P_c

→ $MR = MC$ 決定出 Q_m 的產量，價格會訂在 P_m

2. (a) $MR = MC$, $P = a - bQ \Rightarrow MR = a - 2bQ$
 $a - 2bQ = c + eQ$ $P = a - b(\frac{a-c}{2b+e})$
 $Q = \frac{a-c}{2b+e} \Rightarrow P = \frac{ab+ae+bc}{2b+e}$

(c) Since $e > 0$ and $P = \frac{ab+ae+bc}{2b+e}$
 增加 a

(b) Since $Q = \frac{a-c}{2b+e}$, 增加 c 減少 Q

3. (A) $MR = MC$, $120 - 2q - 4q \Rightarrow q = 20$ $P = 100$ 利潤: $2000 - 800 = 1200$

(B) 無謂損失 = $20 \times \frac{4}{2} = 40$ (完全競爭 $E_d = \frac{1000}{20} = 5$
 壟斷力 = $\frac{100-80}{100} = 0.2$
 $TS = 120 \times \frac{24}{2} = 1440$)

(C) $P = MC$, 故 $120 - q = 4q$ $q = 24$ 代回需求函數得

$P = 96$ $\pi = 96 \times 24 - 2(24)^2 = 1152$

由於是 MC 訂價，無謂損失 = 0

(MC 訂價去之 TS: 完全競爭之 TS = $120 \times \frac{24}{2} = 1440$)

(D) $P = AC$, 故 $120 - q = 2q$ $q = 40$ 代回需求函數得

$P = 80$ $\pi = 80 \times 40 - 2(40)^2 = 0$

AC 訂價 $TS = CS + PS = CS + \pi$, $CS + 0$: $CS = \frac{(120-80) \times 40}{2} = 800$

無謂損失 = $1440 - 800 = 640$