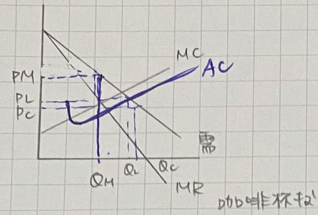


WK 11. 鄭又麟

1.



悟空 = $D = AC$.
 悟能 = 在 $MR = 0$
 悟淨 = $MR = MC$

2. (a) $a + 2bQ = C + eQ \quad a = \frac{a-c}{2b+e}$

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

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

(c) $e \geq 0, \quad p = \frac{ab + ae + bc}{2b + e}$

$p = \frac{ab + ae + bc}{2b + e}$

3.

(A) $MR = MC$

$120 - 2q = 4q$

$q^* = 20 \quad p^* = 100$

$\pi^* = 100 \times 20 - 2 \times 20^2 = 1200$

$Ed = \frac{100}{50} = 5 \quad MC^* = 4q^2 = 80$

獨佔力 $\frac{100-80}{100} = 0.2 \neq$

(B) 無謂損失 = $20 \times \frac{4}{2} = 40$ (完全競爭函數) $120 \times \frac{24}{2} = 1440$

(C) $P = MC$ 故 $120 - q = 4q \quad q = 24$ (代回求函數) $\Rightarrow P = 96$
 $\pi = 96 \times 24 - 2(24)^2 = 1152$

由於是 MC 訂價, 無謂損失 = 0.

(MC 訂價法之 T_s = 完全競爭 $T_s = 120 \times \frac{24}{2} = 1440$)

(D) $P = AC$ 故 $120 - q = 2q \quad q = 40 \quad p = 80$

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

AC 訂價法之 $T_s = CS + PS = CS + \pi = CS + 0$

$= CS = (120 - 80) \times 40 / 2 = 800$

仍有無謂損失 $1440 - 800 = 640$