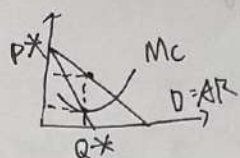


Week 11 A108260019 廖思勤

1.



唯一一家 \Rightarrow 獨占

2.

(a)

$$MR = MC \quad a - 2bQ = c + eQ \quad Q = \frac{a-c}{2b+e} \quad p = a - b \left(\frac{a-c}{2b+e} \right), \quad P = \frac{a + b(a-c)}{2b+e}$$

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

(c) $e \geq 0$

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

3.

(a) $MR = MC \quad 120 - 2g = 4g \quad g^* = 20 \quad p^* = 160$
 $\pi^* = 100 \times 20 - (20)^2 = 1200 \quad Ed = \frac{100}{20} = 5 \quad MC^* = 4g^* = 80$

(b) 無謂損失 = $20 \times \frac{4}{2} = 40$ 完全競爭下 $TS = 120 \times \frac{24}{2} = 1440$

(c) $P = MC \quad 120 - g = 4g \quad g = 24 \quad p = 96 \quad \pi = 96 \times 24 - 2(24)^2 = 1152 \quad TS = 1440$

(d) $P = AC \quad 120 - g = 2g \quad g = 40 \quad p = 80 \quad \pi = 80 \times 40 - 2(40)^2 = 0 \quad TS = CS + PS = 800$