

Week 12 作業 4.5.6.]

4A)  $MR = 100 - 2q = 20 = MC$   $q^* = 40$ ,  $p^* = 60$

$$ML = \frac{60 - 20}{60} = \frac{2}{3}$$

$$\pi^* = (40 \times 60) - (30 + 20 \times 40) = 1,570$$

4B) 無謂損失  $= \frac{1}{2} (40 \times 40) = 800$

4C) 獨占力  $= \frac{P - MC}{P} = \frac{60 - 20}{60} = \frac{2}{3}$

4D)  $MR + MC + 10$

$$100 - 2q = 30 \Rightarrow q^* = 35, p^* = 65$$

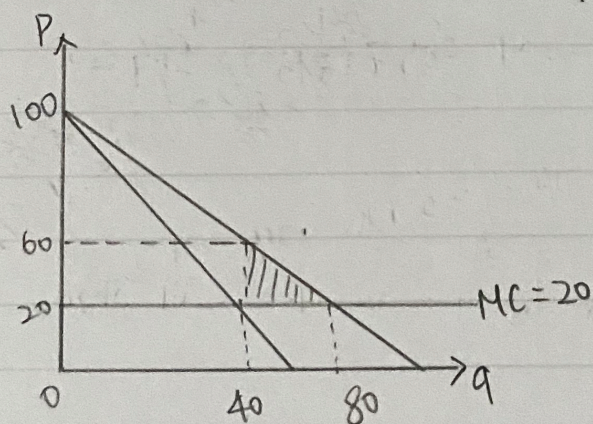
$$\pi = (35 \times 65) - (30 + 20 \times 35) - (10 \times 35) = 1,195$$

4E)  $(1 - 10\%) MR = MC \Rightarrow 0.9(100 - 2q) = 20 \Rightarrow q^* = 350/9$ ,  $p^* = 550/9$

$$\pi^* = ((350/9) \times (550/9) \times 0.9) - 30 - (20 \times (350/9)) = 1.33$$

4F) 定額稅對產出、價格均無影響，故  $q^* = 40$ ,  $p^* = 60$

利潤則減少稅額部分，故  $\pi^* = 1,570 - 1000 = 570$



4G) 利潤稅對產出、價格均無影響，故  $q^* = 40$ ,  $p^* = 60$

稅後利潤  $= 0.8 \times$  稅前利潤  $= (0.8 \times 1,570) = 1,256$

4H)  $P = MC$

$$100 - 2q = 20 \quad q^* = 80, p^* = 20$$

故虧損  $= (80 \times 20) - (30 + 20 \times 80) = -30$ . 無謂損失等於 0