

Week 12 A108260019 廖思勉

We

4.

$$(A) MR = 100 - 2q = 20 = MC \Rightarrow q^* = 40, p^* = 60 \quad \pi = (40 \times 60) - (30 + 20 \times 40) = 1570$$

3.

$$(B) \text{無謂損失} = (60 - 20) \times 40 \times \frac{1}{2} = 1600$$

$$(C) L = 1 - \frac{MC}{P} = \frac{2}{3}$$

$$(D) MR = MC + 10 \quad 100 - 2q = 30 \Rightarrow q^* = 35, p^* = 65 \quad \pi = (35 \times 65) - (30 + 20 \times 35) - (60 \times 35) = 1195$$

$$(E) \pi^* = (35 \times \frac{55}{9} \times \frac{55}{9} \times 0.9) - 30 - (20 \times \frac{35}{9}) = 1331$$

$$(F) q^* = 40, p^* = 60 \quad \pi^* = 1570 - 1000 = 570$$

$$(H) P = MC \Rightarrow 100 - 2q = 20 \quad q^* = 50, p^* = 20$$

$$\text{虧損} = (20 \times 20) - (30 + 20 \times 20) = -70 \quad \text{無損失} = 0$$

$$5. P = 4 MC$$

$$\Rightarrow \frac{P}{MC} = \frac{1}{1 - \frac{1}{\epsilon}}$$

$$\Rightarrow \epsilon_d = \frac{4}{3}$$

$$6. t=0 \Rightarrow p_0 \frac{q+t}{2}, p^* - p_0 = \Delta p = \frac{4}{2}$$

$$7. MCA = MC_B = MR \quad 4q_A = 8q_B = 280 - 2q_A - 2q_B \Rightarrow q_A = 40, q_B = 20$$

$$P = 220$$