

(4)

Week 12

$$(A) MR = 100 - 2q = 20 = MC$$

$$\Rightarrow q^* = 40, p^* = 60, \pi = 1570.$$

$$(B) \text{ 总亏损} = (60 - 20) \times 80 \times \frac{1}{2} = 1600.$$

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

$$(D) MR = MC + 10, 100 - 2q = 30.$$

$$\Rightarrow q^* = 35, p^* = 65, \pi = (35 \times 65) - (30 + 20 \times 35) = 1195.$$

$$(E) \pi^* = \left(\frac{350}{9} \times \frac{550}{9} \times \frac{9}{10} \right) - 30 - \left(20 \times \frac{350}{9} \right) = 1331$$

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

$$(H) P = MC \Rightarrow 100 - 2q = 20, q^* = 40, p^* = 20$$

$$\text{总亏} = (80 \times 20) - (30 + 20 \times 80) = -30, \text{总亏} = 0,$$

$$5. P = 4MC$$

$$6. \pi = 0, P_0 = \frac{q + k}{2},$$

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

$$q^* - P_0 - \Delta P = \frac{4}{2},$$

$$\Rightarrow \varepsilon = \frac{4}{3}.$$