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$$\text{延伸, } Q^d = 2000 - 10p, n = 40$$

$$STC = q^2 + 80q + 300$$

$$1) MC = 2q + 80 = P$$

$$AVC = q + 80$$

$$q_i = \frac{P}{2} - 40 \#$$

$$2) Q = \sum_{i=1}^{40} q_i$$

$$= 40 \left(\frac{P}{2} - 40 \right)$$

$$= 20P - 1600 \#$$

$$3) 20P - 1600 = 2000 - 10P$$

$$P^* = 120, Q^* = 800 \#$$

$$4) q_i = \frac{P}{2} - 40$$

$$= \frac{120}{2} - 40 = 20 \#$$

$$\pi = 120(20) - (20^2 + 80 \cdot 20 + 300)$$

$$= 100 \#$$