

No

Date

3. 利用 $MR=MC$, $120-2Q=4Q$, $Q^*=20$, $P^*=100$

$$TV = TR - TC$$

$$= 100 \times 20 - 2 \times 20^2$$

$$= 1200$$

$$\epsilon_d = \left| - \frac{d \ln Q}{d \ln p} \right| = \frac{P}{Q} = \frac{dQ}{dP} \times \frac{P}{Q}$$

$$= \frac{P}{Q} \times \frac{1}{\text{slope}} = \frac{dP}{dQ}$$

$$= \left| \frac{100}{20} \times -1 \right|$$

$$= 5$$

$$L = \frac{P - MC}{P} = \frac{1}{|\epsilon_d|}$$

$$P = 120 - Q$$

$$TC = 2Q^2$$

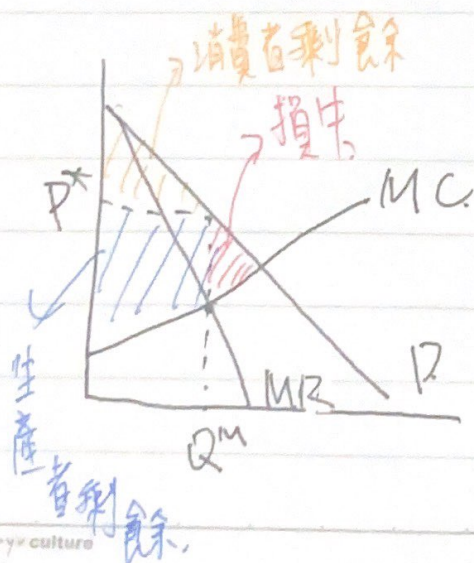
$$P = MC$$

$$120 - Q = 4Q$$

$$Q^* = 24$$

$$P^* = 96$$

$$TV = TR - TC = 1152$$



$$MC = 4Q = 4 \times 20 = 80$$

$$4Q = 120 - Q$$

$$Q = 24$$

$$= \frac{(100 - 80) \times (24 - 20)}{2}$$

$$= 40$$