

$$P_A = 100 - q_A \quad P_B = 80 - q_B \quad TC = 20q$$

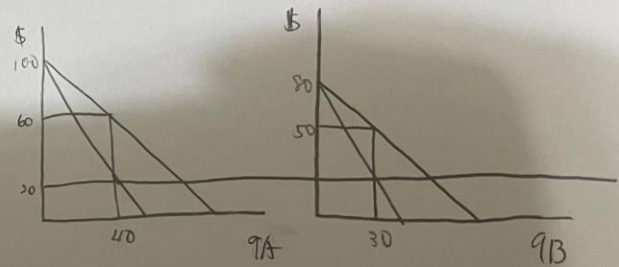
$$(A) \quad MR_A = 100 - 2q_A = 20 \quad q_A^* = 40 \quad P_A^* = 60$$

$$MR_B = 80 - 2q_B = 20 \quad q_B^* = 30 \quad P_B^* = 50$$

$$CS_A = \frac{40 \times 40}{2} = 800 \quad CS_B = \frac{30 \times 30}{2} = 450$$

$$PS_A = 1600 \quad PS_B = 900$$

$$\pi = PS_A + PS_B = 2500 \quad TS = \pi + CS_A + CS_B = 3750$$



(B)

(C)