



$$P = 200 - q, \text{ MC} = 20$$

$$\Pi = 200q - q^2 - 20q$$

$$200 - 2q - 20$$

$$180 \quad q = 90$$

C.C.

MAX  $\Pi_1$

$$\frac{d\Pi_1}{dq_1} = 200 - 2q_1 - q_2 - q_1 \frac{dq_2}{dq_1} - 20 = 0$$

$$\frac{dq_2}{dq_1} = 0$$

$$\frac{d\Pi_1}{dq} = 200 - 2q_1 - q_2 - 20 = 0$$

$$q_1 = \frac{180}{2} - \frac{1}{2}q_2 = \frac{180}{2} - \frac{1}{2}q_2$$

MAX  $\Pi_2$

$$\frac{d\Pi_2}{dq_2} = 2(200 - q_1 - q_2) - 20 = 0$$

$$-q_1 + q_2 = 0$$

$$q = 120 \quad q_1 = q_2 = 60$$

$$P = 80$$

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