

Empresa produce A, B:

A: Q2 B: Q3

$$q_A = 400(P_B - P_A)$$
 $q_B = 400(9 + P_A - 2P_B)$

Pa & PB son precies de venta

Maximizar precios de venta:

$$q_A = 400 P_B - 400 P_A$$
 I: Pemanda x Precie
 $q_B = 3.600 + 400 P_A - 800 P_B$

$$U(P_A, P_B) = (q_A P_A + q_B P_B) - (2q_A + 3q_B)$$

$$U(P_A, P_B) = \left[P_A 400 (P_B - P_A) + P_B 400 (9 + P_A - 2P_B) \right] - \left[800 (P_B - P_A) + 1,200 (9 - P_A - 2P_B) \right]$$

$$U(P_A, P_B) = 400 P_B P_A - P_A^2 + 10,800 - 1,200 P_A - 2,400 P_B$$

$$\frac{\partial U}{\partial P_A} = 400 P_B - 2 P_A - 1,200 = \emptyset$$

$$\frac{\partial u}{\partial P_{B}} = 400P_{A} - 2,400 = 0$$

$$P_{A} = \frac{2,400}{400} = 6$$

$$400 P_B - 2(6) - 1,200 = 0$$

P- ...

$$\frac{1B = \frac{1,212}{400} = \frac{606}{200} = \frac{303}{100}$$

$$P_A = 6$$
 $P_B = \frac{303}{700}$