



$$P(Q) = Q - bQ$$

 $Follower (Firm 2)$

$$Q = 9 + 92$$

max.
$$T_2 = P(Q)q_2 - cq_2 = (9(Q)-c)q_2$$

 q_2
max $(a-bQ-c)q_2$

$$\begin{array}{c}
\text{Max} & (a-69,-69,-c)9_{2} \\
\text{92} & \text{Max} \\
\text{92} & \text{92},-69,9_{2}-69_{2}-69_{2} \\
\text{FOC} & \\
\frac{1}{3} & \text{92} & \text{93} & \text{93} & \text{93} & \text{93} \\
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$$\text{Max } P(0)9, -c9, \\
 4, \\
 9_2 = \frac{a-c-b9_1}{2b}$$

$$\text{Max } (a-b9_1-b9_2-c)9, \\
 9_1 = a-c-b9_1$$

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$$max \quad aq_{1}-bq_{1}^{2}-\frac{1}{2}(aq_{1}-cq_{1}-bq_{1}^{2})-cq_{1}$$

$$+oC$$

$$a-2bq_{1}-C$$

$$-\frac{1}{2}(a-c-2bq_{1})=0$$

$$\frac{1}{2}(a-1bq_{1}-c)=0$$

$$\frac{1}{2}bq_{1}=a-c=1q_{1}^{2}=\frac{a-c}{2b}$$