

入門経済数学 後期期末試験 解答

担当 市東 亘

2000年1月25日第2限(11:00—12:00)

1. (ア) 補完 (イ) 減少 (ウ) 逆需要

$$(エ) \begin{array}{cc} a_1 & a_2 \\ b_1 & b_2 \end{array} \quad (オ) \begin{array}{c} a_0^2 - Q_1 \\ b_0^{\frac{1}{2}} - Q_2 \end{array}$$

$$(カ) \begin{array}{cc} a_0^2 - Q_1 & a_2 \\ b_0^{\frac{1}{2}} - Q_2 & b_2 \end{array} \quad (キ) b_2(a_0^2 - Q_1) - a_2(b_0^{\frac{1}{2}} - Q_2)$$

$$(ク) \begin{array}{cc} a_1 & a_0^2 - Q_1 \\ b_1 & b_0^{\frac{1}{2}} - Q_2 \end{array} \quad (ケ) a_1(b_0^{\frac{1}{2}} - Q_2) - b_1(a_0^2 - Q_1)$$

(コ) $\partial\pi/\partial Q_1$ (サ) $\partial\pi/\partial Q_2$ (シ) ゼロ

$$(ス) P_1(Q_1, Q_2) + \frac{\partial P_2}{\partial Q_1} Q_2 - \frac{\partial C}{\partial Q_1}$$

$$(セ) \frac{\partial P_2}{\partial Q_2} Q_2 + P_2(Q_1, Q_2) - \frac{\partial C}{\partial Q_2}$$

(ソ) $8a_0^2$ (タ) $8b_0^{\frac{1}{2}}$ (チ) 減少 (ツ) 負, またはマイナス (テ) 負値 (ト) ヘッセ

(ナ) $|D_1| < 0, |D| > 0$ (ニ) -6 (ヌ) 75 (ネ) a_0

$$(ノ) \begin{array}{cc} \frac{\partial F}{\partial Q_1} & \frac{\partial F}{\partial Q_2} \\ \frac{\partial G}{\partial Q_1} & \frac{\partial G}{\partial Q_2} \end{array} \quad (ハ) \begin{array}{c} -\frac{\partial F}{\partial a_0} \\ -\frac{\partial G}{\partial a_0} \end{array}$$

2. 最小値, 変曲点, 鞍点.