

$$\begin{array}{l} \ddot{u} \\ \ddot{a} \\ \ddot{b} \\ u \\ a \\ L_j^1 \\ c_j = \\ j = \\ 1;2 \\ c_j = \Theta_j L_j \end{array}$$

$$\begin{array}{l} (1) \quad \frac{1}{2} \\ L_1 = \\ mund L_2 = \\ (1- \\ m) \\ \ddot{a} \ddot{b} \\ \ddot{a} \\ \ddot{\Theta}_j \\ \frac{\partial c_j}{\partial L_j} = w_j \Rightarrow \Theta_j = w_j \end{array}$$

$$\begin{array}{l} \ddot{U}_j = \ln(c_1) + \ln(c_2) \\ (2) \quad \ddot{U} \end{array}$$

$$\begin{array}{l} \frac{\partial U}{\partial m} \neq 0 \\ (3) \end{array}$$

$$c_1 = \frac{\Theta_1}{\Theta_2} c_2$$

$$(4) \quad m=0,5$$

$$\begin{array}{l} (5) \quad m \\ u \\ u \\ \ddot{u} \\ max U = \ln(c_1) + \ln(c_2) - \lambda(p_1 c_1 + p_2 c_2 - y) \\ (6) \end{array}$$

$$\frac{\partial U}{\partial c_1} \neq 0$$

$$\begin{array}{l} (7) \quad \frac{\partial U}{\partial c_2} \neq 0 \end{array}$$

$$(8) \quad \frac{\partial U}{\partial \lambda} \neq 0$$

$$(9) \quad c_1 = \frac{y}{2p_1} = d_1$$

$$(10) \quad c_2 = \frac{y}{2p_2} = d_2$$

$$\begin{array}{l} (11) \quad c_j \\ d_j \\ max \Pi_j = p_j c_j(m) - w_j c_j(m) \\ (12) \end{array}$$

$$\frac{\partial \Pi_j}{\partial c_j} \neq 0$$

$$(13) \quad p_j = w_j$$

$$(14) \quad \frac{\partial \Pi_j}{\partial m} \neq 0$$

$$(15) \quad p_j = w_j$$

$$\begin{array}{l} (16) \quad \boxed{\frac{p_1}{p_2} = \frac{w_1}{w_2} = \frac{\Theta_1}{\Theta_2}} \\ 2 \end{array}$$

$$(17) \quad s_1 = d_1$$

$$(18) \quad s_2 = d_2$$