Nyttefunktioner

$$u^i\left(c^i\right) = \sum \alpha_l^i(t) \ln c_l^i(t)$$

Walras ligevægt

$$\alpha_l^a(t)\,\frac{Pe^a}{P_l(t)} + \alpha_l^b(t)\,\frac{Pe^b}{P_l(t)} - e_l^a(t) - e_l^b(t) = 0$$

for $P = (1,1,1,1)$ giver dette

$$\alpha_l^a(t)\left(\sum_{l,t} e_l^a(t)\right) + \alpha_l^b(t)\left(\sum_{l,t} e_l^b(t)\right) - e_l^a(t) - e_l^b(t) = 0$$

Indkomst overførsler

$$r^i(t) = \left(\alpha_1^i(t) + \alpha_2^i(t)\right)\sum_{l,t} e_l^i(t) - e_1^i(t) - e_2^i(t) \neq 0$$

Spot-markedsligevægt

$$\frac{\alpha_l^a(t)}{\alpha_1^a(t) + \alpha_2^a(t)}\frac{p(t)\cdot e^a(t)}{p_l(t)} + \frac{\alpha_l^b(t)}{\alpha_1^b(t) + \alpha_2^b(t)}\frac{p(t)\cdot e^b(t)}{p_l(t)} - e_l^a(t) - e_l^b(t) = 0$$

Givet at $1 = p_1(1) \neq p_2(1)$ skal

$$p_2(t) = \frac{\frac{\alpha_2^a(t)}{\alpha_1^a(t)+\alpha_2^a(t)}e_1^a(t) + \frac{\alpha_2^b(t)}{\alpha_1^b(t)+\alpha_2^b(t)}e_1^b(1)}{\frac{\alpha_1^a(t)}{\alpha_1^a(t)+\alpha_2^a(t)}e_1^a(t) + \frac{\alpha_1^b(t)}{\alpha_1^b(t)+\alpha_2^b(t)}e_1^b(1)} \Rightarrow$$

$$\frac{\alpha_2^a(t)}{\alpha_1^a(t) + \alpha_2^a(t)}e_1^a(t) + \frac{\alpha_2^b(t)}{\alpha_1^b(t) + \alpha_2^b(t)}e_1^b(1) \neq \frac{\alpha_1^a(t)}{\alpha_1^a(t) + \alpha_2^a(t)}e_1^a(t) + \frac{\alpha_1^b(t)}{\alpha_1^b(t) + \alpha_2^b(t)}e_1^b(1)$$

Betragt følgende økonomi

$$\begin{pmatrix} e \\ \alpha \end{pmatrix} = \begin{pmatrix} \left(e^a, e^b\right) \\ \left(\alpha^a, \alpha^b\right) \end{pmatrix} = \begin{pmatrix} \left(\left(\left(4,2\right),\left(0,2\right)\right),\left(\left(0,2\right),\left(4,2\right)\right)\right) \\ \left(\left(\left(\frac{3}{8},\frac{1}{8}\right),\left(\frac{1}{8},\frac{3}{8}\right)\right),\left(\left(\frac{1}{8},\frac{3}{8}\right),\left(\frac{3}{8},\frac{1}{8}\right)\right)\right) \end{pmatrix}$$

Walrasligevægt

$$(c, P) = \left(\begin{pmatrix} \left(\left(3,1\right),\left(1,3\right)\right) \\ \left(\left(1,3\right),\left(3,1\right)\right) \end{pmatrix}, \left(1,1,1,1\right)\right)$$

Spotmarkedsligevægt

$$(c, p) = \left(\begin{pmatrix} \left(\left(\frac{15}{4},\frac{5}{2}\right),\left(\frac{1}{4},\frac{3}{2}\right)\right) \\ \left(\left(\frac{1}{4},\frac{3}{2}\right),\left(\frac{15}{4},\frac{5}{2}\right)\right) \end{pmatrix}, \left(1, \frac{1}{2}, 1, \frac{1}{2}\right)\right)$$