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[3].

$$MV = D,$$

$$D - V -$$

$$: MV = PQ$$

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§1.

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a) “ ” (

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b) (constant marginal utility of money)

c) [8]:

d) [5]:

e) [5]:

Δs_t^i

s_n^i, s_r^i

S_e

$$\operatorname{Re} z = \frac{S_e}{S} \leq 1$$

$W(z)$

$(N = \infty)$

$\operatorname{Re} z$

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Δs_i

[11],

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W

s^i

t

$$EW(\Delta s_t^i; a) = \sum_{i=1}^N \int_0^\infty s_i^{a+1} [(1-2y_i(x))|1-2y_i(x)|^\alpha] F(dx),$$

$$: s_i = s_e^i(x) + s_n^i(x), s_e^i(x) = (1-y_i(x))s_i, 0 \leq y(x) \leq 1, \int_0^\infty F(dx) = \int_0^\infty f(x)dx = 1.$$

$$, EW(\Delta s_t^i; a) = \sum_{i=1}^N \int_0^\infty s_i^{a+1} [(1-2y_i(x))|1-2y_i(x)|^\alpha] F(dx) = \sum_{i=1}^N \Delta s_t^i |\Delta s_t^i|^\alpha.$$

$$a_i (1-y_i(x)) = \frac{s_e^i}{s_i}$$

$\{\Delta s_t^i\}$

N.

([10]).

$$W_t = \frac{1}{2} \begin{pmatrix} s_e^i - |s_n^i| & -is_r^i \\ is_r^i & s_e^i - |s_n^i| \end{pmatrix};$$

$$W_t(z) = \sum_{i \in I_\varepsilon} W_t^i |W_t^i|^z, \quad |W_t^i| = \varepsilon$$

$$i \in I, \quad : s_t^i = \sqrt{|s_e^i|^2 + |s_n^i|^2 + |s_r^i|^2}.$$

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[8],

§3.

$$\sum_{i=1}^N \Delta s_t^i = S_t$$

$$\Delta s_t^i = s_t^i.$$

$$\Delta s_t^i.$$

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$W(z)$ $S[x(t), u(t)]$,

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: $\frac{dx}{dt} = f(x, u)$.

: $\frac{dx}{dt} = f(x, u, W_\tau, \xi)$, x -

$G(u_i \in G_{u_i})$, u - , W_τ - (e) e

τ , t, ξ - .

$W(z)$

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:

$S[x(t), u(t)] = \int_0^\infty F(x(t), u(t), W_\tau, \xi) dt$ (2),

$S[x(t), u(t)]$ - , (2) ,

$X(x_i \in X)$, $U(u_i \in U)$ $\Omega(\xi \in \Omega)$.

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$W(\Delta s_i^j)$, ξ U .

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U

$W(\Delta s_i^j)$ ξ

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$$\frac{S_e}{S_t} \sim \frac{L_e(t)}{L},$$

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W

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5. $\frac{1}{z}$ ()
 6. $\frac{1}{z}$ ()
 7. Gini (1) $\text{Re } z = 0,8$ ()
 8. $\frac{1}{z}$ ()

9.

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