V_{12}の定義:

$\forall A_1 \in N_{01}(N_{01})$; $\forall A_3 \in \mathbb{R}_+(\mathbb{R}_+)$; $\forall A_4 \in \mathbb{R}(\mathbb{R})$; $\forall n \in \mathbb{N}$; $\forall p \in \mathbb{P}_n$;

$V_{12}(A_1, A_3, A_4, p) \in F_{12}(F_{12})$ and 【1】 and 【2】 and 【3】

【1】 $[V_{12}(A_1, A_3, A_4, p)](0) = 0$

【2】 $\forall m \in \mathbb{N}$; $\forall f \in F_{12,m}$; $m \neq n \Rightarrow$

$[V_{12}(A_1, A_3, A_4, p)](f) = [V_{12}(A_1, A_3, A_4, 1 \in \mathbb{P}_m)](f)$

【3】 $\forall f \in F_{12,n}$; $[V_{12}(A_1, A_3, A_4, p)](f) \in F_{12,n}$ and 【3a】 and 【3b】

【3a】 $[[V_{12}(A_1, A_3, A_4, p)](f)](N_{2,n}) = [V_{2,n}(A_1, p)](f(N_{2,n}))$

【3b】 $\forall i \in \mathbb{2}$; $\forall k \in \{1, \cdots, n\}$;

$[[V_{12}(A_1, A_3, A_4, p)](f)](i, p(k)) = A_{i+2}(f(i, k))$

V_{14}の定義:

$\forall A_1 \in N_{01}(N_{01})$; $\forall A_2 \in F_{\hat{3}}(F_{\hat{3}})$; $\forall A_3 \in \mathbb{R}_+(\mathbb{R}_+)$; $\forall A_4 \in \mathbb{R}(\mathbb{R})$;

$\forall n \in \mathbb{N}$; $\forall p \in \mathbb{P}_n$; $V_{14}(A_1, A_2, A_3, A_4, p) \in F_{14}(F_{14})$ and 【1】 and 【2】

【1】 $\forall f \in F_3$; $[V_{14}(A_1, A_2, A_3, A_4, p)](f) = [V_3(A_1, A_2)](f)$

【2】 $\forall m \in \mathbb{N}$; $\forall f \in F_{14,m}$; $[V_{14}(A_1, A_2, A_3, A_4, p)](f) \in F_{14,m}$ and

$[[V_{14}(A_1, A_2, A_3, A_4, p)](f)](N_{12,m}) = [V_{12}(A_1, A_3, A_4, p)](f(N_{12,m}))$

and $[[V_{14}(A_1, A_2, A_3, A_4, p)](f)](N_3) = [V_3(A_1, A_2)](f(N_3))$

V_{01}の定義: $\forall A_1 \in N_{01}(N_{01})$; $V_{01}(A_1) \in F_{01}(F_{01})$ and

$\forall f \in F_{01}$; $\forall \xi \in N_{01}$; $[[V_{01}(A_1)](f)](A_1(\xi)) = f(\xi)$

$V_{02,n}$の定義: $\forall A_1 \in N_{01}(N_{01})$; $\forall n \in \mathbb{N}$; $\forall p \in \mathbb{P}_n$;

$V_{02,n}(A_1, p) \in F_{02,n}(F_{02,n})$ and $\forall f \in F_{02,n}$; $\forall k \in \{1, \cdots, n\}$;

$[[V_{02,n}(A_1, p)](f)](\square, p(k), 3) = [V_{01}(A_1)](f(\square, k, 3))$

$V_{04,n}$の定義: $\forall A_1 \in N_{01}(N_{01})$; $\forall A_2 \in F_{\hat{3}}(F_{\hat{3}})$; $\forall n \in \mathbb{N}$; $\forall p \in \mathbb{P}_n$;

$V_{04,n}(A_1, A_2, p) \in F_{04,n}(F_{04,n})$ and $\forall f \in F_{04,n}$; 【1】 and 【2】

【1】 $[[V_{04,n}(A_1, A_2, p)](f)](N_{02,n}) = [V_{02,n}(A_1, p)](f(N_{02,n}))$

【2】 $[[V_{04,n}(A_1, A_2, p)](f)](N_3) = [V_3(A_1, A_2)](f(N_3))$

V_{22}の定義: $\forall A_1 \in N_{01}(N_{01})$; $\forall A_3 \in \mathbb{R}_+(\mathbb{R}_+)$; $\forall A_4 \in \mathbb{R}(\mathbb{R})$;

$V_{22}(A_1, A_3, A_4) \in F_{22}(F_{22})$ and $\forall f \in F_{22}$; $\forall (\xi, i, 3) \in N_{22}$;

$[[V_{22}(A_1, A_3, A_4)](f)](A_1(\xi), i, 3) = A_{i+2}(f(\xi, i, 3))$