

For each $\mathbf{c} : X \rightarrow \overline{F}X$, $\mathbf{tr}^\infty(\mathbf{c}) : X \rightarrow \Sigma^\infty$ is given by:

$$\mathbf{tr}^\infty(\mathbf{c})(\mathbf{x})(\{\epsilon\}) = \mathbf{c}(\mathbf{x})(\{\checkmark\}), \quad (1)$$

$$\mathbf{tr}^\infty(\mathbf{c})(\mathbf{x})(\{au\}) = \int_{\mathbf{y} \in X} \mathbf{tr}^\infty(\mathbf{c})(\mathbf{y})(\{u\}) d\mathbf{c}_a(\mathbf{x}), \quad (2)$$

$$\mathbf{tr}^\infty(\mathbf{c})(\mathbf{x})(\Sigma^\infty) = \gamma_{\mathbf{x}}, \text{ and} \quad (3)$$

$$\mathbf{tr}^\infty(\mathbf{c})(\mathbf{x})(au\Sigma^\infty) = \int_{\mathbf{y} \in X} \mathbf{tr}^\infty(\mathbf{c})(\mathbf{y})(u\Sigma^\infty) d\mathbf{c}_a(\mathbf{x}), \quad (4)$$

where $\mathbf{c}_a(\mathbf{x})(A) = \mathbf{c}(\mathbf{x})(\{a\} \times A)$ and $\gamma \in [0, 1]^X$ is the largest function that satisfies the following equation

$$\gamma_{\mathbf{x}} = \mathbf{c}(\mathbf{x})(\{\checkmark\}) + \int_{\mathbf{y} \in X} \gamma_{\mathbf{y}} d\mathbf{c}_\Sigma(\mathbf{x}). \quad (5)$$