

t92_relat_1

(TMP3XtZNzUhhWFiad8WW1NKO2teu6gNqYSh)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k6_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (v1_relat_1 X3) \Rightarrow \\ & ((k4_tarski X0 X1 \in k3_relat_1 X3 (k4_relat_1 X2)) \Leftrightarrow ((X1 \in X2) \wedge (k4_tarski \\ & \quad X0 X1 \in X3))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. v1_relat_1 (k3_relat_1 X0 X1) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow (\forall X2. (v1_relat_1 \\ & X2) \Rightarrow ((X2 = k6_relat_1 X0 X1) \Leftrightarrow (\forall X3. \forall X4. (k4_tarski \\ & X3 X4 \in X2) \Leftrightarrow ((X4 \in X0) \wedge (k4_tarski X3 X4 \in X1))))) \end{aligned} \tag{3}$$

Theorem 1

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow (k6_relat_1 X0 X1 = k3_relat_1 X1 (k4_relat_1 X0))$$