

t7_partit_2
(TMGFuzb4wXkVu1B239tr8quQCqp2kAwLbU9)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r1_relat_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. v1_relat_1 (k3_relat_1 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow ((X2 = k3_relat_1 \\ X0 X1) \Leftrightarrow (\forall X3. \forall X4. (k4_tarski X3 X4 \in X2) \Leftrightarrow (\exists X5. \\ (k4_tarski X3 X5 \in X0) \wedge (k4_tarski X5 X4 \in X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (r1_relat_2 X0 X1) \Leftrightarrow (\forall X2. \\ (X2 \in X1) \Rightarrow (k4_tarski X2 X2 \in X0))) \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (v1_relat_1 X1) \Rightarrow (\forall X2. \\ ((r1_relat_2 X0 X2) \wedge (r1_relat_2 X1 X2)) \Rightarrow (r1_relat_2 (k3_relat_1 \\ X0 X1) X2))) \end{aligned}$$