

t33_sysrel (TMNdUoHNRWDb- VBsY8Nw1MYkLMS2zZ2XnP4)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_sysrel : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. (v1_relat_1 X0) \Rightarrow & ((r1_tarski (k9_xtuple_0 (k1_sysrel \\ & X0)) (k9_xtuple_0 X0)) \wedge ((r1_tarski (k10_xtuple_0 (k1_sysrel \\ & X0)) (k10_xtuple_0 X0)) \wedge ((r1_tarski (k10_xtuple_0 (k1_sysrel \\ & X0)) (k9_xtuple_0 X0)) \wedge (r1_tarski (k9_xtuple_0 (k1_sysrel X0)) \\ & (k10_xtuple_0 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k4_relat_1 X0) (k4_relat_1 X1)) \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. (v1_relat_1 X0) \Rightarrow & ((r1_tarski (k4_relat_1 (k9_xtuple_0 \\ & (k1_sysrel X0))) (k4_relat_1 (k9_xtuple_0 X0))) \wedge (r1_tarski (\\ & k4_relat_1 (k10_xtuple_0 (k1_sysrel X0))) (k4_relat_1 (k9_xtuple_0 \\ & X0)))) \end{aligned}$$