

t151_relat_1 (TMWdgvRn- HjFt5BTXwB2KXzSYr8FfZUzLED7)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow (\forall X3. \\ & (v1_relat_1 X3) \Rightarrow (((r1_tarski X2 X3) \wedge (r1_tarski X0 X1)) \Rightarrow (r1_tarski \\ & (k5_relat_1 X2 X0) (k5_relat_1 X3 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (k5_relat_1 X0 (k9_xtuple_0 X0) = X0) \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow (\forall X2. (v1_relat_1 \\ & X2) \Rightarrow (((r1_tarski (k9_xtuple_0 X2) X0) \wedge (r1_tarski X2 X1)) \Rightarrow (r1_tarski \\ & X2 (k5_relat_1 X1 X0)))) \end{aligned}$$