

t2_mfold_2
(TMUGcwRkq8Ue8oi2zunfaD7jNT16xzmzeTY)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1. \forall X2. \\ & (r1_tarski (k8_relat_1 X0 X2) X1) \Rightarrow (k8_relat_1 X0 X2 = k8_relat_1 \\ & (k5_relat_1 X0 X1) X2)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow ((r1_tarski \\ & X0 X1) \Rightarrow (r1_tarski (k8_relat_1 X2 X0) (k8_relat_1 X2 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (k6_relat_1 \\ & X0 X1 = k5_relat_1 X1 (k8_relat_1 X1 X0)) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1. \forall X2. \\ & (r1_tarski X2 X1) \Rightarrow (k8_relat_1 (k6_relat_1 X1 X0) X2 = k8_relat_1 \\ & X0 X2)) \end{aligned}$$