

t41_funct_5 (TMKQGbFCMfE- QEcm5QufSNYeX27mqA5hfWfU)

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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 $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_funct_5 : \iota \Rightarrow \iota$ be given. Let $k4_funct_5 : \iota \Rightarrow \iota$ be given. Let $k4_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski (k1_funct_2 X0 X1) (k4_partfun1 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow ((r1_tarski (k10_xtuple_0 X2) (k4_partfun1 X0 X1)) \Rightarrow ((r1_tarski \\ & (k10_xtuple_0 (k2_funct_5 X2)) X1) \wedge (r1_tarski (k10_xtuple_0 (k4_funct_5 X2)) X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow ((r1_tarski (k10_xtuple_0 X2) (k1_funct_2 X0 X1)) \Rightarrow ((r1_tarski \\ & (k10_xtuple_0 (k2_funct_5 X2)) X1) \wedge (r1_tarski (k10_xtuple_0 (k4_funct_5 X2)) X1))) \end{aligned}$$