

t124_funct_4 (TMMriVA-
PAA3Ftd4gDRTeHjnjPoCvRCRUF6Y)

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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 $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((\\ v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2.((v1_relat_1 X2) \wedge \\ (v1_funct_1 X2)) \Rightarrow (((r1_xboole_0 (k9_xtuple_0 X0) (k9_xtuple_0 \\ X1)) \wedge (r1_tarski X0 X2)) \Rightarrow (r1_tarski X0 (k1_funct_4 X2 X1)))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((\\ v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2.((v1_relat_1 X2) \wedge \\ (v1_funct_1 X2)) \Rightarrow (((r1_tarski X0 X1) \wedge (r1_xboole_0 (k9_xtuple_0 \\ X0) (k9_xtuple_0 X2)) \Rightarrow (r1_tarski X0 (k1_funct_4 X1 X2)))))) \end{aligned}$$