

t46_glib_003 (TM-
SeRsh1h76YUhESprZGyGC1xwZTMCpXsLW)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_glib_000 : \iota \Rightarrow o$ be given. Let $v2_glib_003 : \iota \Rightarrow o$ be given. Let $k7_glib_000 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k11_glib_003 : \iota \Rightarrow \iota$ be given. Let $k12_glib_003 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 (k2_xboole_0 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ X0) \wedge ((v1_finset_1 X0) \wedge ((v1_glib_000 X0) \wedge (v2_glib_003 X0)))))) \Rightarrow \\ (\forall X1. \forall X2. (X1 \in k7_glib_000 X0) \Rightarrow (k11_glib_003 (k12_glib_003 \\ X0 X1 X2) = k2_xboole_0 (k11_glib_003 X0) (k1_tarski X1))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ X0) \wedge ((v1_finset_1 X0) \wedge ((v1_glib_000 X0) \wedge (v2_glib_003 X0)))))) \Rightarrow \\ (\forall X1. \forall X2. (X1 \in k7_glib_000 X0) \Rightarrow (r1_tarski (k11_glib_003 \\ X0) (k11_glib_003 (k12_glib_003 X0 X1 X2)))) \end{aligned}$$