t33_glib_000 (TMWPZUEt753A6s4sEJDkK2u6nfJhnYQXh5j)

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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 $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k21\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k20\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_glib\_000 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_glib\_000 : \iota \Rightarrow \iota$ be given. Let $k11\_glib\_000 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \Rightarrow (\forall X1.\forall X2.((X1 \in k7\_glib\_000\ X0) \wedge ((k1\_funct\_1\ (k10\_glib\_000\ X0)\ X1 \in X2) \vee (k1\_funct\_1\ (k11\_glib\_000\ X0)\ X1 \in X2))) \Leftrightarrow (X1 \in k20\_glib\_000\ X0\ X2)) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \Rightarrow (\forall X1.\forall X2.((X1 \in k7\_glib\_000\ X0) \wedge ((k1\_funct\_1\ (k10\_glib\_000\ X0)\ X1 \in X2) \wedge (k1\_funct\_1\ (k11\_glib\_000\ X0)\ X1 \in X2))) \Leftrightarrow (X1 \in k21\_glib\_000\ X0\ X2)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ X0\ X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \tag{3}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \Rightarrow (\forall X1.r1\_tarski\ (k21\_glib\_000\ X0\ X1)\ (k20\_glib\_000\ X0\ X1))$$