l28_glib_002 (TMP4iUHg8qFth9jb5sMPeryLHpEw7KxWRXm)

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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 $v4\_glib\_002 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_glib\_000 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k24\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r5\_glib\_000 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_glib\_000 : \iota \Rightarrow \iota$ be given. Let $k1\_glib\_002 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X2))) \Rightarrow (m1\_subset\_1\ X0\ X2) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \Rightarrow (\forall X1.((v4\_glib\_002\ X1\ X0) \wedge (m1\_glib\_000\ X1\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k6\_glib\_000\ X0)) \Rightarrow ((X2 \in k24\_glib\_000\ X0\ X1) \Leftrightarrow (k24\_glib\_000\ X0\ X1 = k1\_glib\_002\ X0\ X2)))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \Rightarrow (\forall X1.((v4\_glib\_002\ X1\ X0) \wedge (m1\_glib\_000\ X1\ X0)) \Rightarrow (\forall X2.((v4\_glib\_002\ X2\ X0) \wedge (m1\_glib\_000\ X2\ X0)) \Rightarrow ((k24\_glib\_000\ X0\ X1 = k24\_glib\_000\ X0\ X2) \Leftrightarrow (r5\_glib\_000\ X1\ X2)))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \wedge (m1\_glib\_000\ X1\ X0)) \Rightarrow ((\neg v1\_xboole\_0\ (k24\_glib\_000\ X0\ X1)) \wedge (m1\_subset\_1\ (k24\_glib\_000\ X0\ X1)\ (k1\_zfmisc\_1\ (k6\_glib\_000\ X0)))) \tag{4}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v4\_relat\_1\ X0\ k5\_numbers)\wedge((v1\_funct\_1\ X0)\wedge((v1\_finset\_1\ X0)\wedge(v1\_glib\_000\ X0)))))\Rightarrow(\forall X1.((v4\_glib\_002\ X1\ X0)\wedge(m1\_glib\_000\ X1\ X0))\Rightarrow(\forall X2.((v4\_glib\_002\ X2\ X0)\wedge(m1\_glib\_000\ X2\ X0))\Rightarrow(\forall X3.((X3\in k24\_glib\_000\ X0\ X1)\wedge(X3\in k24\_glib\_000\ X0\ X2))\Rightarrow(r5\_glib\_000\ X1\ X2))))$$