l24_glib_002 (TML2hYT93erkYCSHydW74eK7jsR1iyi4u27)

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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 $k3\_glib\_002 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ 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. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \Rightarrow ((\neg v1\_xboole\_0\ (k3\_glib\_002\ X0)) \wedge (m1\_subset\_1\ (k3\_glib\_002\ X0)\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ (k6\_glib\_000\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \wedge (m1\_subset\_1\ X1\ (k6\_glib\_000\ X0))) \Rightarrow ((\neg v1\_xboole\_0\ (k1\_glib\_002\ X0\ X1)) \wedge (m1\_subset\_1\ (k1\_glib\_002\ X0\ X1)\ (k1\_zfmisc\_1\ (k6\_glib\_000\ X0)))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ (k6\_glib\_000\ X0))))) \Rightarrow ((X1 = k3\_glib\_002\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (\exists X3.(m1\_subset\_1\ X3\ (k6\_glib\_000\ X0)) \wedge (X2 = k1\_glib\_002\ X0\ X3))))) \tag{3}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ k5\_numbers) \wedge ((v1\_funct\_1\ X0) \wedge ((v1\_finset\_1\ X0) \wedge (v1\_glib\_000\ X0))))) \Rightarrow (\forall X1.(X1 \in k3\_glib\_002\ X0) \Rightarrow ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k6\_glib\_000\ X0))))))$$