l33_arytm_2 (TMc1xqR5k1cwf61FqEdZUyHD5RpG4KEWeaU)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_arytm\_2 : \iota$ be given. Let $k4\_arytm\_2 : \iota \Rightarrow \iota$ be given. Let $k3\_arytm\_2 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_arytm\_3 : \iota$ be given. Let $k1\_arytm\_2 : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k2\_arytm\_2) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k2\_arytm\_2) \Rightarrow ((k3\_arytm\_2\ X0 = k3\_arytm\_2\ X1) \Rightarrow (X0 = X1))) \tag{2}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ (k1\_zfmisc\_1\ k5\_arytm\_3)\ k1\_arytm\_2) \Rightarrow (k3\_arytm\_2\ (k4\_arytm\_2\ X0) = X0) \tag{3}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_arytm\_2 \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_arytm\_2) \Rightarrow (m1\_subset\_1\ (k4\_arytm\_2\ X0)\ k2\_arytm\_2) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k2\_arytm\_2) \Rightarrow (m2\_subset\_1\ (k3\_arytm\_2\ X0)\ (k1\_zfmisc\_1\ k5\_arytm\_3)\ k1\_arytm\_2) \tag{6}$$

Assume the following.

$$m1\_subset\_1\ k1\_arytm\_2\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ k5\_arytm\_3)) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{8}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k2\_arytm\_2)\Rightarrow(k4\_arytm\_2\ (k3\_arytm\_2\ X0) = X0)$$