t6_mesfunc7 (TMH5UgmM58t8zZDL4zBKTumjYMw8SQcprw2)

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Let $k2\_mesfunc7 : \iota \Rightarrow \iota$ be given. Let $k6\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k4\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_mesfunc7 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_setwiseo : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_finsop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_membered : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v2\_valued\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\neg(v1\_xboole\_0\ X0) \wedge ((X0 \neq X1) \wedge (v1\_xboole\_0\ X1)) \tag{1}$$

Assume the following.

$$k4\_binop\_1\ k7\_numbers\ k1\_mesfunc7 = np\_\_1 \tag{2}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ X0\ X0)\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0))))) \Rightarrow ((v1\_setwiseo\ X1\ X0) \Rightarrow (k1\_finsop\_1\ X0\ (k6\_finseq\_1\ X0)\ X1 = k4\_binop\_1\ X0\ X1))) \tag{3}$$

Assume the following.

$$\forall X0.\exists X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \wedge (v1\_xboole\_0\ X1) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\exists X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \wedge ((v1\_xboole\_0\ X2) \wedge ((v1\_relat\_1\ X2) \wedge ((v4\_relat\_1\ X2\ X0) \wedge (v5\_relat\_1\ X2\ X1)))) \tag{5}$$

Assume the following.

$$\neg v1\_xboole\_0\ k7\_numbers \tag{6}$$

Assume the following.

$$\forall X0.v1\_xboole\_0\ (k6\_finseq\_1\ X0) \tag{7}$$

Assume the following.

$$(v1\_funct\_1\ k1\_mesfunc7)\wedge((v1\_funct\_2\ k1\_mesfunc7\ (k2\_zfmisc\_1\ k7\_numbers\ k7\_numbers)\ k7\_numbers)\wedge(v1\_setwiseo\ k1\_mesfunc7\ k7\_numbers)) \tag{8}$$

Assume the following.

$$v2\_membered\ k7\_numbers \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0)\Rightarrow((v1\_funct\_1\ X1)\wedge((v1\_finseq\_1\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ X0))))) \tag{10}$$

Assume the following.

$$\forall X0.m2\_finseq\_1\ (k6\_finseq\_1\ X0)\ X0 \tag{11}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge((v1\_finseq\_1\ X0)\wedge(v2\_valued\_0\ X0))))\Rightarrow(m1\_subset\_1\ (k2\_mesfunc7\ X0)\ k7\_numbers) \tag{12}$$

Assume the following.

$$(v1\_funct\_1\ k1\_mesfunc7)\wedge((v1\_funct\_2\ k1\_mesfunc7\ (k2\_zfmisc\_1\ k7\_numbers\ k7\_numbers)\ k7\_numbers)\wedge(m1\_subset\_1\ k1\_mesfunc7\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ k7\_numbers\ k7\_numbers)\ k7\_numbers)))) \tag{13}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge((v1\_finseq\_1\ X0)\wedge(v2\_valued\_0\ X0))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ k7\_numbers)\Rightarrow((X1 = k2\_mesfunc7\ X0)\Leftrightarrow(\exists X2.(m2\_finseq\_1\ X2\ k7\_numbers)\wedge((X2 = X0)\wedge(X1 = k1\_finsop\_1\ k7\_numbers\ X2\ k1\_mesfunc7))))) \tag{14}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge(v1\_xboole\_0\ X0))\Rightarrow((v1\_relat\_1\ X0)\wedge(v1\_finseq\_1\ X0)) \tag{15}$$

Assume the following.

$$\forall X0.\forall X1.(v2\_membered\ X1)\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow(v2\_valued\_0\ X2)) \tag{16}$$

Theorem 1 $k2\_mesfunc7\ (k6\_finseq\_1\ k7\_numbers) = np\_\_1$.