t2_midsp_1 (TMagn1wCV8WQgHaQBGr6yyDEKxMwb5wJVNv)

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Let $r1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_midsp\_1 : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $u1\_midsp\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_funct\_5 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ 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 $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $g1\_midsp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_midsp\_1 : \iota \Rightarrow o$ be given. Let $l1\_midsp\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\neg v1\_xboole\_0\ np\_\_1 \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\ ((\neg v1\_xboole\_0\ X1) \wedge ((\neg v1\_xboole\_0\ X3) \wedge (((v1\_funct\_1\ X4) \wedge ((v1\_funct\_2\ X4\ X0\ X1) \wedge (m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))) \wedge ((v1\_funct\_1\ X5) \wedge ((v1\_funct\_2\ X5\ X2\ X3) \wedge (m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X2\ X3))))))) \Rightarrow ((r1\_funct\_2\ X0\ X1\ X2\ X3\ X4\ X5) \Leftrightarrow (X4 = X5)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ X0\ X0)\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0))))) \Rightarrow (\forall X2.\forall X3.(g1\_midsp\_1\ X0\ X1 = g1\_midsp\_1\ X2\ X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \tag{3}$$

Assume the following.

$$(\neg v2\_struct\_0\ k2\_midsp\_1) \wedge (v1\_midsp\_1\ k2\_midsp\_1) \tag{4}$$

Assume the following.

$$(v1\_funct\_1\ k9\_funct\_5) \wedge ((v1\_funct\_2\ k9\_funct\_5\ (k2\_zfmisc\_1\ np\_\_1\ np\_\_1)\ np\_\_1) \wedge (m1\_subset\_1\ k9\_funct\_5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ np\_\_1\ np\_\_1)\ np\_\_1)))) \tag{5}$$

Assume the following.

$$l1\_midsp\_1\ k2\_midsp\_1 \tag{6}$$

Assume the following.

$$k2\_midsp\_1 = g1\_midsp\_1\ np\_\_1\ k9\_funct\_5 \tag{7}$$

Assume the following.

$$\forall X0.(l1\_midsp\_1\ X0) \Rightarrow ((v1\_midsp\_1\ X0) \Rightarrow (X0 = g1\_midsp\_1\ (u1\_struct\_0\ X0)\ (u1\_midsp\_1\ X0))) \tag{8}$$

Theorem 1

$$r1\_funct\_2\ (k2\_zfmisc\_1\ (u1\_struct\_0\ k2\_midsp\_1)\ (u1\_struct\_0\ k2\_midsp\_1))\ (u1\_struct\_0\ k2\_midsp\_1)\ (k2\_zfmisc\_1\ np\_\_1\ np\_\_1)\ np\_\_1\ (u1\_midsp\_1\ k2\_midsp\_1)\ k9\_funct\_5$$