t5_bspace (TMZTp6sMHhYXXWxQePbyQVabixkXkXA1wT2)

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Let $k4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_bspace : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $np\_\_2 : \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_0 : \iota$ be given. Let $k7\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k4\_ordinal1 : \iota$ 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 $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $g6\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l6\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l2\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l5\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_algstr\_0 : \iota \Rightarrow o$ be given. Let $k7\_int\_3 : \iota \Rightarrow \iota$ be given. Let $k3\_gr\_cy\_1 : \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v6\_struct\_0 : \iota \Rightarrow o$ be given. Let $v13\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v33\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v3\_group\_1 : \iota \Rightarrow o$ be given. Let $v5\_group\_1 : \iota \Rightarrow o$ be given. Let $v4\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v5\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v2\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v4\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $k1\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v36\_algstr\_0 : \iota \Rightarrow o$ be given. Let $u2\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k9\_int\_3 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_algstr\_0 : \iota \Rightarrow \iota$ be given. Let $u2\_algstr\_0 : \iota \Rightarrow \iota$ be given. Let $u3\_struct\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow ((X0 \in X1) \Leftrightarrow (\neg r1\_xxreal\_0\ X1\ X0))) \tag{2}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_2) \wedge (m2\_subset\_1\ np\_\_2\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_2\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_2\ k1\_numbers)) \tag{3}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{4}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_2\ np\_\_0 \tag{5}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (k7\_card\_1\ X0 = k6\_card\_1\ X0) \tag{6}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{7}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.(((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ X0\ X0)\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0))))) \wedge (((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ (k2\_zfmisc\_1\ X0\ X0)\ X0) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0))))) \wedge ((m1\_subset\_1\ X3\ X0) \wedge (m1\_subset\_1\ X4\ X0)))) \Rightarrow (\forall X5.\forall X6.\forall X7.\forall X8.\forall X9.(g6\_algstr\_0\ X0\ X1\ X2\ X3\ X4 = g6\_algstr\_0\ X5\ X6\ X7\ X8\ X9) \Rightarrow ((X0 = X5) \wedge ((X1 = X6) \wedge ((X2 = X7) \wedge ((X3 = X8) \wedge (X4 = X9)))))) \tag{9}$$

Assume the following.

$$\forall X0.(l6\_algstr\_0\ X0) \Rightarrow ((l2\_algstr\_0\ X0) \wedge (l5\_algstr\_0\ X0)) \tag{10}$$

Assume the following.

$$\forall X0.(l2\_algstr\_0\ X0) \Rightarrow ((l2\_struct\_0\ X0) \wedge (l1\_algstr\_0\ X0)) \tag{11}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((v1\_funct\_1\ (k7\_int\_3\ X0)) \wedge ((v1\_funct\_2\ (k7\_int\_3\ X0)\ (k2\_zfmisc\_1\ (k7\_card\_1\ X0)\ (k7\_card\_1\ X0))\ (k7\_card\_1\ X0)) \wedge (m1\_subset\_1\ (k7\_int\_3\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (k7\_card\_1\ X0)\ (k7\_card\_1\ X0))\ (k7\_card\_1\ X0)))))) \tag{12}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((v1\_funct\_1\ (k3\_gr\_cy\_1\ X0)) \wedge ((v1\_funct\_2\ (k3\_gr\_cy\_1\ X0)\ (k2\_zfmisc\_1\ (k7\_card\_1\ X0)\ (k7\_card\_1\ X0))\ (k7\_card\_1\ X0)) \wedge (m1\_subset\_1\ (k3\_gr\_cy\_1\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (k7\_card\_1\ X0)\ (k7\_card\_1\ X0))\ (k7\_card\_1\ X0)))))) \tag{13}$$

Assume the following.

$$(\neg v2\_struct\_0\ k2\_bspace)\wedge((\neg v6\_struct\_0\ k2\_bspace)\wedge((v13\_algstr\_0\ k2\_bspace)\wedge((v33\_algstr\_0\ k2\_bspace)\wedge((v3\_group\_1\ k2\_bspace)\wedge((v5\_group\_1\ k2\_bspace)\wedge((v4\_vectsp\_1\ k2\_bspace)\wedge((v5\_vectsp\_1\ k2\_bspace)\wedge((v2\_rlvect\_1\ k2\_bspace)\wedge((v3\_rlvect\_1\ k2\_bspace)\wedge((v4\_rlvect\_1\ k2\_bspace)\wedge(l6\_algstr\_0\ k2\_bspace))))))))))) \tag{14}$$

Assume the following.

$$\forall X0.\forall X1.m1\_subset\_1\ (k1\_funct\_7\ X0\ X1)\ X1 \tag{15}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.(((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ X0\ X0)\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0)))))\wedge(((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ (k2\_zfmisc\_1\ X0\ X0)\ X0)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0)))))\wedge((m1\_subset\_1\ X3\ X0)\wedge(m1\_subset\_1\ X4\ X0))))\Rightarrow((v36\_algstr\_0\ (g6\_algstr\_0\ X0\ X1\ X2\ X3\ X4))\wedge(l6\_algstr\_0\ (g6\_algstr\_0\ X0\ X1\ X2\ X3\ X4))) \tag{16}$$

Assume the following.

$$\forall X0.(l2\_struct\_0\ X0)\Rightarrow(k4\_struct\_0\ X0 = u2\_struct\_0\ X0) \tag{17}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(k6\_card\_1\ X0 = X0) \tag{18}$$

Assume the following.

$$k2\_bspace = k9\_int\_3\ np\_\_2 \tag{19}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1)\Rightarrow(k1\_funct\_7\ X0\ X1 = X0) \tag{20}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(k9\_int\_3\ X0 = g6\_algstr\_0\ (k7\_card\_1\ X0)\ (k3\_gr\_cy\_1\ X0)\ (k7\_int\_3\ X0)\ (k1\_funct\_7\ np\_\_1\ (k7\_card\_1\ X0))\ (k1\_funct\_7\ k6\_numbers\ (k7\_card\_1\ X0))) \tag{21}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{22}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(v7\_ordinal1\ X0) \tag{23}$$

Assume the following.

$$\forall X0.(l6\_algstr\_0\ X0) \Rightarrow ((v36\_algstr\_0\ X0) \Rightarrow (X0 = g6\_algstr\_0\ (u1\_struct\_0\ X0)\ (u1\_algstr\_0\ X0)\ (u2\_algstr\_0\ X0)\ (u3\_struct\_0\ X0)\ (u2\_struct\_0\ X0))) \tag{24}$$

Theorem 1 $k4\_struct\_0\ k2\_bspace = k1\_xboole\_0$.