t23_int_7 (TMU6hmgQhqCKDHq39T9qqCbpMHKWY8vvsMy)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_int\_2 : \iota \Rightarrow o$ be given. Let $k7\_group\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_int\_7 : \iota \Rightarrow \iota$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_int\_7 : \iota \Rightarrow \iota$ be given. Let $v8\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Let $k7\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $k1\_card\_1 : \iota \Rightarrow \iota$ 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 $g3\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_group\_1 : \iota \Rightarrow o$ be given. Let $v3\_group\_1 : \iota \Rightarrow o$ be given. Let $v5\_group\_1 : \iota \Rightarrow o$ be given. Let $l3\_algstr\_0 : \iota \Rightarrow o$ be given. Let $k2\_int\_7 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v15\_algstr\_0 : \iota \Rightarrow o$ be given. Let $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u2\_algstr\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((\neg r1\_xxreal\_0\ X0\ np\_\_1) \Rightarrow (k5\_card\_1\ (k1\_int\_7\ X0) = k6\_xcmplx\_0\ X0\ np\_\_1)) \tag{1}$$

Assume the following.

$$\forall X0.((v8\_struct\_0\ X0) \wedge (l1\_struct\_0\ X0)) \Rightarrow (k7\_group\_1\ X0 = k7\_struct\_0\ X0) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0) \Rightarrow (k5\_card\_1\ X0 = k1\_card\_1\ X0) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ X0\ X0)\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0))))) \Rightarrow (\forall X2.\forall X3.(g3\_algstr\_0\ X0\ X1 = g3\_algstr\_0\ X2\ X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \tag{4}$$

Assume the following.

$$\forall X0.((v7\_ordinal1\ X0)\wedge(v1\_int\_2\ X0))\Rightarrow((\neg v2\_struct\_0\ (k3\_int\_7\ X0))\wedge((v8\_struct\_0\ (k3\_int\_7\ X0))\wedge((v2\_group\_1\ (k3\_int\_7\ X0))\wedge((v3\_group\_1\ (k3\_int\_7\ X0))\wedge(v5\_group\_1\ (k3\_int\_7\ X0)))))) \tag{5}$$

Assume the following.

$$\forall X0.(l3\_algstr\_0\ X0)\Rightarrow(l1\_struct\_0\ X0) \tag{6}$$

Assume the following.

$$\forall X0.((v7\_ordinal1\ X0)\wedge(v1\_int\_2\ X0))\Rightarrow((\neg v2\_struct\_0\ (k3\_int\_7\ X0))\wedge((v2\_group\_1\ (k3\_int\_7\ X0))\wedge((v3\_group\_1\ (k3\_int\_7\ X0))\wedge((v5\_group\_1\ (k3\_int\_7\ X0))\wedge(l3\_algstr\_0\ (k3\_int\_7\ X0)))))) \tag{7}$$

Assume the following.

$$\forall X0.((v7\_ordinal1\ X0)\wedge(v1\_int\_2\ X0))\Rightarrow((v1\_funct\_1\ (k2\_int\_7\ X0))\wedge((v1\_funct\_2\ (k2\_int\_7\ X0)\ (k2\_zfmisc\_1\ (k1\_int\_7\ X0)\ (k1\_int\_7\ X0))\ (k1\_int\_7\ X0))\wedge(m1\_subset\_1\ (k2\_int\_7\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (k1\_int\_7\ X0)\ (k1\_int\_7\ X0))\ (k1\_int\_7\ X0))))))) \tag{8}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow((\neg v1\_xboole\_0\ (k1\_int\_7\ X0))\wedge((v1\_finset\_1\ (k1\_int\_7\ X0))\wedge(m1\_subset\_1\ (k1\_int\_7\ X0)\ (k1\_zfmisc\_1\ k5\_numbers)))) \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ X0\ X0)\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0)\ X0)))))\Rightarrow((v15\_algstr\_0\ (g3\_algstr\_0\ X0\ X1))\wedge(l3\_algstr\_0\ (g3\_algstr\_0\ X0\ X1))) \tag{10}$$

Assume the following.

$$\forall X0.((v7\_ordinal1\ X0)\wedge(v1\_int\_2\ X0))\Rightarrow(k3\_int\_7\ X0 = g3\_algstr\_0\ (k1\_int\_7\ X0)\ (k2\_int\_7\ X0)) \tag{11}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow((v1\_int\_2\ X0)\Leftrightarrow((\neg r1\_xxreal\_0\ X0\ np\_\_1)\wedge(\forall X1.(v7\_ordinal1\ X1)\Rightarrow(\neg(r1\_int\_1\ X1\ X0)\wedge((X1\neq np\_\_1)\wedge(X1\neq X0)))))) \tag{12}$$

Assume the following.

$$\forall X0.(l1\_struct\_0\ X0)\Rightarrow(k7\_struct\_0\ X0 = k1\_card\_1\ (u1\_struct\_0\ X0)) \tag{13}$$

Assume the following.

$$\forall X0.(l3\_algstr\_0\ X0)\Rightarrow((v15\_algstr\_0\ X0)\Rightarrow(X0 = g3\_algstr\_0\ (u1\_struct\_0\ X0)\ (u2\_algstr\_0\ X0))) \tag{14}$$

Theorem 1

$$\forall X0.((v7\_ordinal1\ X0)\wedge(v1\_int\_2\ X0))\Rightarrow(k7\_group\_1\ (k3\_int\_7\ X0) = k6\_xcmplx\_0\ X0\ np\_\_1)$$