t10_matrix_5 (TMM-TaXC8GFevGK9mFMxMahb2gi2ncnYYJyr)

October 27, 2020

Let $v1\_matrix\_1 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_finseq\_2 : \iota \Rightarrow \iota$ be given. Let $k2\_numbers : \iota$ be given. Let $k7\_matrix\_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ 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 $v2\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v4\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v4\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v5\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $l6\_algstr\_0 : \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k6\_matrix\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_group\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_complfld : \iota$ be given. Let $k6\_complex1 : \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ 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 $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v36\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v3\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v6\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $k1\_matrix\_5 : \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k2\_matrix\_5 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((\neg v6\_struct\_0\ X0) \wedge ((v13\_algstr\_0\ X0) \wedge ((v33\_algstr\_0\ X0) \wedge ((v3\_group\_1\ X0) \wedge ((v5\_group\_1\ X0) \wedge ((v2\_rlvect\_1\ X0) \wedge ((v3\_rlvect\_1\ X0) \wedge ((v4\_rlvect\_1\ X0) \wedge ((v4\_vectsp\_1\ X0) \wedge ((v5\_vectsp\_1\ X0) \wedge (l6\_algstr\_0\ X0))))))))))) \Rightarrow (\forall X1.((v1\_matrix\_1\ X1) \wedge (m2\_finseq\_1\ X1\ (k3\_finseq\_2\ (u1\_struct\_0\ X0)))) \Rightarrow (k6\_matrix\_3\ X0\ X1\ (k1\_group\_1\ X0) = X1)) \tag{1}$$

Assume the following.

$$k1\_group\_1\ k1\_complfld = k6\_complex1 \tag{2}$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Leftrightarrow (m1\_finseq\_1\ X1\ X0) \tag{4}$$

Assume the following.

$$(\neg v6\_struct\_0\ k1\_complfld)\wedge((v13\_algstr\_0\ k1\_complfld)\wedge((v33\_algstr\_0\ k1\_complfld)\wedge((v36\_algstr\_0\ k1\_complfld)\wedge((v3\_group\_1\ k1\_complfld)\wedge((v5\_group\_1\ k1\_complfld)\wedge((v3\_vectsp\_1\ k1\_complfld)\wedge((v5\_vectsp\_1\ k1\_complfld)\wedge((v6\_vectsp\_1\ k1\_complfld)\wedge((v2\_rlvect\_1\ k1\_complfld)\wedge((v3\_rlvect\_1\ k1\_complfld)\wedge(v4\_rlvect\_1\ k1\_complfld))))))))))) \tag{5}$$

Assume the following.

$$(v36\_algstr\_0\ k1\_complfld)\wedge(v4\_vectsp\_1\ k1\_complfld) \tag{6}$$

Assume the following.

$$(\neg v2\_struct\_0\ k1\_complfld)\wedge(v36\_algstr\_0\ k1\_complfld) \tag{7}$$

Assume the following.

$$\forall X0.((v1\_matrix\_1\ X0)\wedge(m1\_finseq\_1\ X0\ (k3\_finseq\_2\ k2\_numbers)))\Rightarrow((v1\_matrix\_1\ (k1\_matrix\_5\ X0))\wedge(m2\_finseq\_1\ (k1\_matrix\_5\ X0)\ (k3\_finseq\_2\ (u1\_struct\_0\ k1\_complfld)))) \tag{8}$$

Assume the following.

$$(v36\_algstr\_0\ k1\_complfld)\wedge(l6\_algstr\_0\ k1\_complfld) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0)\Rightarrow(\forall X1.((v1\_matrix\_1\ X1)\wedge(m2\_finseq\_1\ X1\ (k3\_finseq\_2\ k2\_numbers)))\Rightarrow(\forall X2.((v1\_matrix\_1\ X2)\wedge(m2\_finseq\_1\ X2\ (k3\_finseq\_2\ k2\_numbers)))\Rightarrow((X2 = k7\_matrix\_5\ X0\ X1)\Leftrightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ k1\_complfld))\Rightarrow((X3 = X0)\Rightarrow(X2 = k2\_matrix\_5\ (k6\_matrix\_3\ k1\_complfld\ (k1\_matrix\_5\ X1)\ X3))))))) \tag{10}$$

Assume the following.

$$k6\_complex1 = np\_\_1 \tag{11}$$

Assume the following.

$$\forall X0.((v1\_matrix\_1\ X0)\wedge(m2\_finseq\_1\ X0\ (k3\_finseq\_2\ (u1\_struct\_0\ k1\_complfld))))\Rightarrow(k2\_matrix\_5\ X0 = X0) \tag{12}$$

Assume the following.

$$\forall X0.((v1\_matrix\_1\ X0)\wedge(m2\_finseq\_1\ X0\ (k3\_finseq\_2\ k2\_numbers)))\Rightarrow(k1\_matrix\_5\ X0 = X0) \tag{13}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xcmplx\_0\ X0) \tag{14}$$

Theorem 1

$$\forall X0.((v1\_matrix\_1\ X0)\wedge(m2\_finseq\_1\ X0\ (k3\_finseq\_2\ k2\_numbers)))\Rightarrow (k7\_matrix\_5\ np\_\_1\ X0 = X0)$$