t52_complfld (TMQq7v7raz98xyBtoeumR9SgNoyKvpZwiq9)

October 27, 2020

Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_complfld : \iota$ be given. Let $k2\_complfld : \iota \Rightarrow \iota$ be given. Let $k4\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k15\_complex1 : \iota \Rightarrow \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $k10\_complex1 : \iota \Rightarrow \iota$ be given. Let $k1\_binop\_2 : \iota \Rightarrow \iota$ be given. Let $k14\_complex1 : \iota \Rightarrow \iota$ be given. Let $k2\_numbers : \iota$ 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 $v36\_algstr\_0 : \iota \Rightarrow o$ be given. Let $u1\_algstr\_0 : \iota \Rightarrow \iota$ be given. Let $k27\_binop\_2 : \iota$ be given. Let $u2\_algstr\_0 : \iota \Rightarrow \iota$ be given. Let $k29\_binop\_2 : \iota$ be given. Let $k5\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k6\_complex1 : \iota$ be given. Let $k4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k5\_complex1 : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k15\_complex1\ (k4\_xcmplx\_0\ X0) = k10\_complex1\ (k15\_complex1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_complfld)) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow ((X0 = X1) \Rightarrow (k4\_algstr\_0\ k1\_complfld\ X0 = k1\_binop\_2\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_complfld)) \Rightarrow (k2\_complfld\ X0 = k14\_complex1\ X0) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k1\_binop\_2\ X0 = k4\_xcmplx\_0\ X0) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k15\_complex1\ X0 = k14\_complex1\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k2\_numbers) \Rightarrow (k10\_complex1\ X0 = k4\_xcmplx\_0\ X0) \tag{6}$$

Assume the following.

$$\forall X0.(l6\_algstr\_0\ X0) \Rightarrow ((l2\_algstr\_0\ X0) \wedge (l5\_algstr\_0\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((l2\_algstr\_0\ X0) \wedge (m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))) \Rightarrow (m1\_subset\_1\ (k4\_algstr\_0\ X0\ X1)\ (u1\_struct\_0\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_complfld)) \Rightarrow (m1\_subset\_1\ (k2\_complfld\ X0)\ (u1\_struct\_0\ k1\_complfld)) \tag{9}$$

Assume the following.

$$(v36\_algstr\_0\ k1\_complfld) \wedge (l6\_algstr\_0\ k1\_complfld) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (v1\_xcmplx\_0\ (k14\_complex1\ X0)) \tag{11}$$

Assume the following.

$$\forall X0.((v36\_algstr\_0\ X0) \wedge (l6\_algstr\_0\ X0)) \Rightarrow ((X0 = k1\_complfld) \Leftrightarrow ((u1\_struct\_0\ X0 = k2\_numbers) \wedge ((u1\_algstr\_0\ X0 = k27\_binop\_2) \wedge ((u2\_algstr\_0\ X0 = k29\_binop\_2) \wedge ((k5\_struct\_0\ X0 = k6\_complex1) \wedge (k4\_struct\_0\ X0 = k5\_complex1)))))) \tag{12}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_complfld)) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{13}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_complfld)) \Rightarrow (k2\_complfld\ (k4\_algstr\_0\ k1\_complfld\ X0) = k4\_algstr\_0\ k1\_complfld\ (k2\_complfld\ X0))$$