t2_menelaus (TMWvA8on2Tj5qg2dWRnrTAHy8VLEiGVL59p)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k15\_euclid : \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ be given. Let $k1\_rlvect\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_euclid : \iota \Rightarrow \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (k8\_real\_1\ X0\ X1 = k3\_xcmplx\_0\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (k11\_binop\_2\ X0\ X1 = k3\_xcmplx\_0\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow ((k17\_euclid\ (k1\_rlvect\_1\ (k15\_euclid\ np\_\_2)\ X1\ X0) = k8\_real\_1\ X0\ (k17\_euclid\ X1)) \wedge (k18\_euclid\ (k1\_rlvect\_1\ (k15\_euclid\ np\_\_2)\ X1\ X0) = k8\_real\_1\ X0\ (k18\_euclid\ X1)))) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (m1\_subset\_1\ (k18\_euclid\ X0)\ k1\_numbers) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (m1\_subset\_1\ (k17\_euclid\ X0)\ k1\_numbers) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xreal\_0\ X0) \tag{6}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_numbers)\Rightarrow((k17\_euclid\ (k1\_rlvect\_1\ (k15\_euclid\ np\_\_2)\ X0\ X1) = k11\_binop\_2\ X1\ (k17\_euclid\ X0))\wedge(k18\_euclid\ (k1\_rlvect\_1\ (k15\_euclid\ np\_\_2)\ X0\ X1) = k11\_binop\_2\ X1\ (k18\_euclid\ X0))))$$