t25_euclid_3 (TMRQZ3cMjrT7zpHxsUA8ypsbr6B7FtB26aw)

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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 $k17\_complex1 : \iota \Rightarrow \iota$ be given. Let $k2\_euclid\_3 : \iota \Rightarrow \iota$ be given. Let $k12\_euclid : \iota \Rightarrow \iota$ be given. Let $k7\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ be given. Let $k18\_euclid : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (k17\_complex1\ (k2\_euclid\_3\ X0) = k7\_square\_1\ (k7\_real\_1\ (k5\_square\_1\ (k17\_euclid\ X0))\ (k5\_square\_1\ (k18\_euclid\ X0)))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow ((k12\_euclid\ X0 = k7\_square\_1\ (k7\_real\_1\ (k5\_square\_1\ (k17\_euclid\ X0))\ (k5\_square\_1\ (k18\_euclid\ X0)))) \wedge (k5\_square\_1\ (k12\_euclid\ X0) = k7\_real\_1\ (k5\_square\_1\ (k17\_euclid\ X0))\ (k5\_square\_1\ (k18\_euclid\ X0)))) \tag{2}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (k17\_complex1\ (k2\_euclid\_3\ X0) = k12\_euclid\ X0)$$