t3_comptrig (TMJCJct9Vu41koU3bB87mVTQpHiAcwd2DLv)

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Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k5\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k17\_complex1 : \iota \Rightarrow \iota$ be given. Let $k7\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_complex1 : \iota \Rightarrow \iota$ be given. Let $k4\_complex1 : \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k3\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k16\_complex1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k17\_complex1\ (k3\_xcmplx\_0\ X0\ X0) = k7\_real\_1\ (k5\_square\_1\ (k3\_complex1\ X0))\ (k5\_square\_1\ (k4\_complex1\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k17\_complex1\ (k3\_xcmplx\_0\ X0\ X1) = k8\_real\_1\ (k17\_complex1\ X0)\ (k17\_complex1\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (k8\_real\_1\ X0\ X1 = k3\_xcmplx\_0\ X0\ X1) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (k5\_square\_1\ X0 = k3\_square\_1\ X0) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k17\_complex1\ X0 = k16\_complex1\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (m1\_subset\_1\ (k17\_complex1\ X0)\ k1\_numbers) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (v1\_xreal\_0\ (k16\_complex1\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k3\_square\_1\ X0 = k3\_xcmplx\_0\ X0\ X0) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{9}$$

Theorem 1

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k5\_square\_1\ (k17\_complex1\ X0) = k7\_real\_1\ (k5\_square\_1\ (k3\_complex1\ X0))\ (k5\_square\_1\ (k4\_complex1\ X0)))$$