l28_complex1 (TMKZhL7FniKxVqqkvm7Cr1wx5WMfmPj4M8z)

October 27, 2020

Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k3\_complex1 : \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_complex1 : \iota \Rightarrow \iota$ be given. Let $k7\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xcmplx\_0\ X2) \Rightarrow ((X2 = k3\_xcmplx\_0\ X0\ X1) \Rightarrow (k4\_complex1\ X2 = k7\_real\_1\ (k8\_real\_1\ (k3\_complex1\ X0)\ (k4\_complex1\ X1))\ (k8\_real\_1\ (k4\_complex1\ X0)\ (k3\_complex1\ X1))))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xcmplx\_0\ X2) \Rightarrow ((X2 = k3\_xcmplx\_0\ X0\ X1) \Rightarrow (k3\_complex1\ X2 = k9\_real\_1\ (k8\_real\_1\ (k3\_complex1\ X0)\ (k3\_complex1\ X1))\ (k8\_real\_1\ (k4\_complex1\ X0)\ (k4\_complex1\ X1))))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0) \wedge (v1\_xcmplx\_0\ X1)) \Rightarrow (v1\_xcmplx\_0\ (k3\_xcmplx\_0\ X0\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (m1\_subset\_1\ (k4\_complex1\ X0)\ k1\_numbers) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (m1\_subset\_1\ (k3\_complex1\ X0)\ k1\_numbers) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (k8\_real\_1\ X0\ X1 = k8\_real\_1\ X1\ X0) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xreal\_0\ X0) \tag{7}$$

Theorem 1

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow ((k3\_complex1\ (k3\_xcmplx\_0\ X0\ X1) = k9\_real\_1\ (k8\_real\_1\ (k3\_complex1\ X0)\ (k3\_complex1\ X1))\ (k8\_real\_1\ (k4\_complex1\ X0)\ (k4\_complex1\ X1))) \wedge (k4\_complex1\ (k3\_xcmplx\_0\ X0\ X1) = k7\_real\_1\ (k8\_real\_1\ (k3\_complex1\ X0)\ (k4\_complex1\ X1))\ (k8\_real\_1\ (k3\_complex1\ X1)\ (k4\_complex1\ X0)))))$$