t96_xcmplx_1 (TMZjX-ENt5LsoZ4RtE9Vmij5AQGodn9D3eBW)

October 27, 2020

Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xcmplx\_0\ X2) \Rightarrow ((X0 \neq k6\_numbers) \Rightarrow (k3\_xcmplx\_0\ X1\ X2 = k7\_xcmplx\_0\ (k3\_xcmplx\_0\ X1\ X0)\ (k7\_xcmplx\_0\ X0\ X2))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xcmplx\_0\ X2) \Rightarrow ((X0 \neq k6\_numbers) \Rightarrow (k7\_xcmplx\_0\ X1\ X2 = k7\_xcmplx\_0\ (k7\_xcmplx\_0\ X1\ X0)\ (k7\_xcmplx\_0\ X2\ X0))))) \tag{2}$$

Theorem 1

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xcmplx\_0\ X2) \Rightarrow (\forall X3.(v1\_xcmplx\_0\ X3) \Rightarrow ((k3\_xcmplx\_0\ X2\ X0 = k7\_xcmplx\_0\ X3\ X1) \Rightarrow ((X0 = k6\_numbers) \vee ((X1 = k6\_numbers) \vee (k3\_xcmplx\_0\ X2\ X1 = k7\_xcmplx\_0\ X3\ X0)))))))$$