t10_square_1 (TM-JAHM1tuZj2op3GoN9yDZaQCP1bUbYdwZr)

October 27, 2020

Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k3\_xcmplx\_0\ (k6\_xcmplx\_0\ X0\ X1)\ (k2\_xcmplx\_0\ X0\ X1) = k6\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1))) \tag{1}$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow ((k6\_xcmplx\_0\ X0\ X1 = k6\_numbers) \Rightarrow (X0 = X1))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k6\_xcmplx\_0\ X0\ X0 = k6\_numbers) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k7\_xcmplx\_0\ X0\ (k7\_xcmplx\_0\ np\_\_1\ X1) = k3\_xcmplx\_0\ X0\ X1)) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow ((X0 \neq k6\_numbers) \Rightarrow (k7\_xcmplx\_0\ X0\ X0 = np\_\_1)) \tag{6}$$

Assume the following.

$$k2\_xcmplx\_0\ np\_\_1\ (k4\_xcmplx\_0\ np\_\_1) = k6\_numbers \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0)\wedge(v1\_xcmplx\_0\ X1))\Rightarrow(\\ v1\_xcmplx\_0\ (k7\_xcmplx\_0\ X0\ X1)) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0)\wedge(v1\_xcmplx\_0\ X1))\Rightarrow(\\ v1\_xcmplx\_0\ (k6\_xcmplx\_0\ X0\ X1)) \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0)\wedge(v1\_xcmplx\_0\ X1))\Rightarrow(\\ v1\_xcmplx\_0\ (k2\_xcmplx\_0\ X0\ X1)) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0)\Rightarrow(v1\_xcmplx\_0\ (k3\_square\_1\ X0)) \tag{11}$$

Theorem 1

$$\forall X0.(v1\_xcmplx\_0\ X0)\Rightarrow(\forall X1.(v1\_xcmplx\_0\ X1)\Rightarrow((\\ k6\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1)\neq k6\_numbers)\Rightarrow(\\ k7\_xcmplx\_0\ np\_\_1\ (k2\_xcmplx\_0\ X0\ X1) = k7\_xcmplx\_0\ (k6\_xcmplx\_0\\ X0\ X1)\ (k6\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1)))))$$