t10_xcmplx_1
(TMX9h4CjVruVNENxvMM8Ym3F16fhrsQU4BK)

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Let $v1\_xcmplx\_0 : \iota{\Rightarrow}o$ be given. Let $k3\_xcmplx\_0 : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Let $k2\_xcmplx\_0 : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_xcmplx\_0\ X0)\wedge((v1\_xcmplx\_0\ X1)\wedge(v1\_xcmplx\_0\ X2)))\Rightarrow(k2\_xcmplx\_0\ (k2\_xcmplx\_0\ X0\ X1)\ X2 = k2\_xcmplx\_0\ X0\ (k2\_xcmplx\_0\ X1\ X2)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_xcmplx\_0\ X0)\wedge((v1\_xcmplx\_0\ X1)\wedge(v1\_xcmplx\_0\ X2)))\Rightarrow(k3\_xcmplx\_0\ (k2\_xcmplx\_0\ X0\ X1)\ X2 = k2\_xcmplx\_0\ (k3\_xcmplx\_0\ X0\ X2)\ (k3\_xcmplx\_0\ X1\ X2)) \tag{2}$$

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.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0)\wedge(v1\_xcmplx\_0\ X1))\Rightarrow(v1\_xcmplx\_0\ (k2\_xcmplx\_0\ X0\ X1)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0)\wedge(v1\_xcmplx\_0\ X1))\Rightarrow(k3\_xcmplx\_0\ X0\ X1 = k3\_xcmplx\_0\ X1\ X0) \tag{5}$$

Theorem 1

$$\forall X0.(v1\_xcmplx\_0\ X0)\Rightarrow(\forall X1.(v1\_xcmplx\_0\ X1)\Rightarrow(\forall X2.(v1\_xcmplx\_0\ X2)\Rightarrow(\forall X3.(v1\_xcmplx\_0\ X3)\Rightarrow(k3\_xcmplx\_0\ (k2\_xcmplx\_0\ X0\ X1)\ (k2\_xcmplx\_0\ X2\ X3) = k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k3\_xcmplx\_0\ X0\ X2)\ (k3\_xcmplx\_0\ X0\ X3))\ (k3\_xcmplx\_0\ X1\ X2))\ (k3\_xcmplx\_0\ X1\ X3)))))$$

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