l79_quaterni (TMRbmpBXyFcFAJ-jAGJDw2RUVycZTSLjMT3d)

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Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $k27\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k26\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k17\_quaterni : \iota \Rightarrow \iota$ be given. Let $k18\_quaterni : \iota \Rightarrow \iota$ be given. Let $k19\_quaterni : \iota \Rightarrow \iota$ be given. Let $k20\_quaterni : \iota \Rightarrow \iota$ be given. Let $k25\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xcmplx\_0 : \iota$ be given. Let $k11\_quaterni : \iota$ be given. Let $k12\_quaterni : \iota$ be given. Let $k6\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k1\_quaterni : \iota$ be given. Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (X0 = k6\_quaterni\ (k17\_quaterni\ X0)\ (k18\_quaterni\ X0)\ (k19\_quaterni\ X0)\ (k20\_quaterni\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0) \wedge (v1\_quaterni\ X1)) \Rightarrow (k27\_quaterni\ X0\ X1 = k10\_quaterni\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0) \wedge (v1\_quaterni\ X1)) \Rightarrow (k26\_quaterni\ X0\ X1 = k7\_quaterni\ X0\ X1) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k1\_numbers) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ k1\_numbers) \Rightarrow (k6\_quaterni\ X0\ X1\ X2\ X3 = k7\_quaterni\ (k7\_quaterni\ (k23\_quaterni\ X0\ (k25\_quaterni\ X1\ k1\_xcmplx\_0))\ (k25\_quaterni\ X2\ k11\_quaterni))\ (k25\_quaterni\ X3\ k12\_quaterni))))) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0)\Rightarrow(\forall X1.(v1\_quaterni\ X1)\Rightarrow((k17\_quaterni\ (k10\_quaterni\ X0\ X1) = k9\_real\_1\ (k9\_real\_1\ (k9\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k17\_quaterni\ X1))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k18\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k20\_quaterni\ X1)))\wedge((k18\_quaterni\ (k10\_quaterni\ X0\ X1) = k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k18\_quaterni\ X1))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k20\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k19\_quaterni\ X1)))\wedge((k19\_quaterni\ (k10\_quaterni\ X0\ X1) = k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k19\_quaterni\ X1))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k18\_quaterni\ X1)))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k20\_quaterni\ X1)))\wedge(k20\_quaterni\ (k10\_quaterni\ X0\ X1) = k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k20\_quaterni\ X1))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k18\_quaterni\ X1)))))))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0)\wedge(v1\_quaterni\ X1))\Rightarrow(v1\_quaterni\ (k10\_quaterni\ X0\ X1)) \tag{6}$$

Assume the following.

$$v1\_quaterni\ k1\_xcmplx\_0 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers)\wedge(v1\_quaterni\ X1))\Rightarrow(v1\_quaterni\ (k25\_quaterni\ X0\ X1)) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers)\wedge(v1\_quaterni\ X1))\Rightarrow(v1\_quaterni\ (k23\_quaterni\ X0\ X1)) \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0)\wedge(v1\_quaterni\ X1))\Rightarrow(m1\_subset\_1\ (k26\_quaterni\ X0\ X1)\ k1\_quaterni) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0)\Rightarrow(m1\_subset\_1\ (k20\_quaterni\ X0)\ k1\_numbers) \tag{11}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0)\Rightarrow(m1\_subset\_1\ (k19\_quaterni\ X0)\ k1\_numbers) \tag{12}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k18\_quaterni\ X0)\ k1\_numbers) \tag{13}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k17\_quaterni\ X0)\ k1\_numbers) \tag{14}$$

Assume the following.

$$m1\_subset\_1\ k12\_quaterni\ k1\_quaterni \tag{15}$$

Assume the following.

$$m1\_subset\_1\ k11\_quaterni\ k1\_quaterni \tag{16}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0) \wedge (v1\_quaterni\ X1)) \Rightarrow (k26\_quaterni\ X0\ X1 = k26\_quaterni\ X1\ X0) \tag{17}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_quaterni) \Rightarrow (v1\_quaterni\ X0) \tag{18}$$

Theorem 1

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (\forall X1.(v1\_quaterni\ X1) \Rightarrow (k27\_quaterni\ X0\ X1 = k26\_quaterni\ (k26\_quaterni\ (k23\_quaterni\ (k9\_real\_1\ (k9\_real\_1\ (k9\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k17\_quaterni\ X1))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k18\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k20\_quaterni\ X1)))\ (k25\_quaterni\ (k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k18\_quaterni\ X1))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k20\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ k1\_xcmplx\_0))\ (k25\_quaterni\ (k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k19\_quaterni\ X1))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k18\_quaterni\ X1)))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k20\_quaterni\ X1)))\ k11\_quaterni))\ (k25\_quaterni\ (k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k20\_quaterni\ X1))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k18\_quaterni\ X1)))\ k12\_quaterni)))$$