t5_quatern3 (TMPiQ1Jqo9W7Yueb4sd5qkDbBTPyVFSDfmL)

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Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k27\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_quatern2 : \iota$ be given. Let $k6\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k17\_quaterni : \iota \Rightarrow \iota$ be given. Let $k10\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xcmplx\_0 : \iota$ 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 $k1\_quaterni : \iota$ be given. Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_numbers) \Rightarrow ((X0 = X1) \Rightarrow ((k17\_quaterni\ (k10\_quaterni\ X0\ k1\_xcmplx\_0) = k6\_numbers) \wedge ((k18\_quaterni\ (k10\_quaterni\ X0\ k1\_xcmplx\_0) = X1) \wedge ((k19\_quaterni\ (k10\_quaterni\ X0\ k1\_xcmplx\_0) = k6\_numbers) \wedge (k20\_quaterni\ (k10\_quaterni\ X0\ k1\_xcmplx\_0) = k6\_numbers)))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (X0 = k6\_quaterni\ (k17\_quaterni\ X0)\ (k18\_quaterni\ X0)\ (k19\_quaterni\ X0)\ (k20\_quaterni\ X0)) \tag{2}$$

Assume the following.

$$k4\_quatern2 = k1\_xcmplx\_0 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0) \wedge (v1\_quaterni\ X1)) \Rightarrow (k27\_quaterni\ X0\ X1 = k10\_quaterni\ X0\ X1) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow ((m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (X0 = k17\_quaterni\ X0) \wedge ((k18\_quaterni\ X0 = k6\_numbers) \wedge ((k19\_quaterni\ X0 = k6\_numbers) \wedge (k20\_quaterni\ X0 = k6\_numbers)))) \tag{5}$$

Assume the following.

$$v1\_quaterni\ k1\_xcmplx\_0 \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0)\wedge(v1\_quaterni\ X1))\Rightarrow(m1\_subset\_1\ (k27\_quaterni\ X0\ X1)\ k1\_quaterni) \tag{7}$$

Assume the following.

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

Theorem 1

$$\forall X0.(v1\_quaterni\ X0)\Rightarrow((m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(k27\_quaterni\ X0\ k4\_quatern2 = k6\_quaterni\ k6\_numbers\ (k17\_quaterni\ X0)\ k6\_numbers\ k6\_numbers))$$