t13_quatern2 (TMXNrbFJS2XSrTUs8meRfoZNfhZPCDCfj1i)

October 27, 2020

Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $k27\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_quatern2 : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k32\_quaterni : \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k21\_quaterni : \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_quaterni : \iota$ be given. Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (\forall X1.(v1\_quaterni\ X1) \Rightarrow (k32\_quaterni\ (k27\_quaterni\ X0\ X1) = k3\_xcmplx\_0\ (k32\_quaterni\ X0)\ (k32\_quaterni\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow ((k32\_quaterni\ X0 = k6\_numbers) \Rightarrow (X0 = k6\_numbers)) \tag{2}$$

Assume the following.

$$k32\_quaterni\ k21\_quaterni = k6\_numbers \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k3\_xcmplx\_0\ X0\ k6\_numbers = k6\_numbers) \tag{4}$$

Assume the following.

$$k1\_quatern2 = k21\_quaterni \tag{5}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (v1\_xreal\_0\ (k32\_quaterni\ X0)) \tag{6}$$

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.

$$v1\_quaterni\ k21\_quaterni \tag{8}$$

Assume the following.

$$k21\_quaterni = k6\_numbers \tag{9}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{10}$$

Assume the following.

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

Theorem 1

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (k27\_quaterni\ X0\ k1\_quatern2 = k6\_numbers)$$