

t30\_quaterni  
(TMd5FP Gm6wBnh35jJe62q1TmnK29KTMTNoo)

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Let  $k17\_quaterni : \iota \Rightarrow \iota$  be given. Let  $k1\_xcmplx\_0 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k18\_quaterni : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k19\_quaterni : \iota \Rightarrow \iota$  be given. Let  $k20\_quaterni : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k6\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k7\_complex1 : \iota$  be given. Let  $k5\_arytm\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k21\_quaterni : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 k1\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k1\_numbers) \Rightarrow (\forall X3. \\ & (m1\_subset\_1 X3 k1\_numbers) \Rightarrow ((k17\_quaterni (k6\_quaterni X0 X1 \\ & X2 X3) = X0) \wedge ((k18\_quaterni (k6\_quaterni X0 X1 X2 X3) = X1) \wedge ((k19\_quaterni \\ & (k6\_quaterni X0 X1 X2 X3) = X2) \wedge (k20\_quaterni (k6\_quaterni X0 X1 \\ & X2 X3) = X3))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge \\ & ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \end{aligned} \tag{2}$$

Assume the following.

$$k7\_complex1 = k1\_xcmplx\_0 \tag{3}$$

Assume the following.

$$m1\_subset\_1 k6\_numbers k1\_numbers \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 k1\_numbers) \Rightarrow (k6\_quaterni X0 X1 k6\_numbers k6\_numbers = k5\_arytm\_0 \\ & X0 X1)) \end{aligned} \tag{5}$$

Assume the following.

$$k1\_xcmplx\_0 = k5\_arytm\_0 \ k6\_numbers \ np\_1 \quad (6)$$

Assume the following.

$$k21\_quaterni = k6\_numbers \quad (7)$$

**Theorem 1**

$$(k17\_quaterni \ k1\_xcmplx\_0 = k6\_numbers) \wedge ((k18\_quaterni \ k1\_xcmplx\_0 = np\_1) \wedge ((k19\_quaterni \ k1\_xcmplx\_0 = k6\_numbers) \wedge (k20\_quaterni \ k1\_xcmplx\_0 = k6\_numbers)))$$