

t47\_quaterni (TM-  
SXP5XJt3DYtbQrc98GRcMW5ybYEzFmiBg)

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Let  $k31\_quaterni : \iota \Rightarrow \iota$  be given. Let  $k22\_quaterni : \iota$  be given. Let  $v1\_quaterni : \iota \Rightarrow o$  be given. Let  $k6\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k17\_quaterni : \iota \Rightarrow \iota$  be given. Let  $k1\_real\_1 : \iota \Rightarrow \iota$  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  $np\_1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Assume the following.

$$\forall X0.(v1\_quaterni X0) \Rightarrow (k31\_quaterni X0 = k6\_quaterni (k17\_quaterni X0) (k1\_real\_1 (k18\_quaterni X0)) (k1\_real\_1 (k19\_quaterni X0)) (k1\_real\_1 (k20\_quaterni X0))) \quad (1)$$

Assume the following.

$$(k17\_quaterni k22\_quaterni = np\_1) \wedge ((k18\_quaterni k22\_quaterni = k6\_numbers) \wedge ((k19\_quaterni k22\_quaterni = k6\_numbers) \wedge (k20\_quaterni k22\_quaterni = k6\_numbers))) \quad (2)$$

Assume the following.

$$k6\_quaterni np\_1 k6\_numbers k6\_numbers k6\_numbers = np\_1 \quad (3)$$

Assume the following.

$$k6\_numbers = k1\_real\_1 k6\_numbers \quad (4)$$

Assume the following.

$$v1\_quaterni k22\_quaterni \quad (5)$$

Assume the following.

$$k22\_quaterni = np\_1 \quad (6)$$

**Theorem 1**  $k31\_quaterni k22\_quaterni = k22\_quaterni$ .