

t31\_quaterni  
(TMabQFsk9NVX28febMTeoex8bN5Qx8igbvM)

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Let  $k17\_quaterni : \iota \Rightarrow \iota$  be given. Let  $k11\_quaterni : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k18\_quaterni : \iota \Rightarrow \iota$  be given. Let  $k19\_quaterni : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k20\_quaterni : \iota \Rightarrow \iota$  be given. Let  $k12\_quaterni : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  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  $np\_0 : \iota$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 k1\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k1\_numbers) \Rightarrow (\forall X3. \\ (m1\_subset\_1 X3 k1\_numbers) \Rightarrow ((k17\_quaterni (k6\_quaterni X0 X1 \\ X2 X3) = X0) \wedge ((k18\_quaterni (k6\_quaterni X0 X1 X2 X3) = X1) \wedge ((k19\_quaterni \\ (k6\_quaterni X0 X1 X2 X3) = X2) \wedge (k20\_quaterni (k6\_quaterni X0 X1 \\ X2 X3) = X3)))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} ((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge \\ ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$v1\_xboole\_0 np\_0 \quad (4)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (5)$$

Assume the following.

$$m1\_subset\_1 k6\_numbers k1\_numbers \quad (6)$$

Assume the following.

$$k_{12\_quaterni} = k_{6\_quaterni} \ k_{6\_numbers} \ k_{6\_numbers} \ k_{6\_numbers} \ np_{-1} \quad (7)$$

Assume the following.

$$k_{11\_quaterni} = k_{6\_quaterni} \ k_{6\_numbers} \ k_{6\_numbers} \ np_{-1} \ k_{6\_numbers} \quad (8)$$

**Theorem 1**

$$\begin{aligned} & (k_{17\_quaterni} \ k_{11\_quaterni} = k_{6\_numbers}) \wedge ((k_{18\_quaterni} \ k_{11\_quaterni} = \\ & \quad k_{6\_numbers}) \wedge ((k_{19\_quaterni} \ k_{11\_quaterni} = np_{-1}) \wedge ((k_{20\_quaterni} \\ & \quad k_{11\_quaterni} = k_{6\_numbers}) \wedge ((k_{17\_quaterni} \ k_{12\_quaterni} = k_{6\_numbers}) \wedge \\ & \quad ((k_{18\_quaterni} \ k_{12\_quaterni} = k_{6\_numbers}) \wedge ((k_{19\_quaterni} \ k_{12\_quaterni} = \\ & \quad \quad k_{6\_numbers}) \wedge (k_{20\_quaterni} \ k_{12\_quaterni} = np_{-1})))))) \end{aligned}$$