

# t89\_quaterni

(TMb4yBYoFmv5M9ga48GVTHMTGZ98DV3APD6)

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Let  $v1\_quaterni : \iota \Rightarrow o$  be given. Let  $k32\_quaterni : \iota \Rightarrow \iota$  be given. Let  $k27\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k31\_quaterni : \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_quaterni : \iota$  be given. Assume the following.

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

Assume the following.

$$\forall X0.(v1\_quaterni X0) \Rightarrow (k32\_quaterni (k31\_quaterni X0) = k32\_quaterni X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_quaterni X0) \Rightarrow (m1\_subset\_1 (k31\_quaterni X0) k1\_quaterni) \quad (3)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_quaterni) \Rightarrow (v1\_quaterni X0) \quad (4)$$

## Theorem 1

$$\forall X0.(v1\_quaterni X0) \Rightarrow (k32\_quaterni (k27\_quaterni X0 X0) = k32\_quaterni (k27\_quaterni X0 (k31\_quaterni X0)))$$