

# l139\_quaterni

(TMTTqe1rVExMRchaP588Vw9whqyJTKH8iGk2)

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Let  $v1\_quaterni : \iota \Rightarrow o$  be given. Let  $k26\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k29\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_quaterni : \iota \Rightarrow \iota$  be given. Let  $m1\_subset.1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_quaterni : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. ((v1\_quaterni X0) \wedge (v1\_quaterni X1)) \Rightarrow (k29\_quaterni X0 X1 = k9\_quaterni X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_quaterni X0) \wedge (v1\_quaterni X1)) \Rightarrow (k26\_quaterni X0 X1 = k7\_quaterni X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. (v1\_quaterni X0) \Rightarrow (\forall X1. (v1\_quaterni X1) \Rightarrow (X0 = k29\_quaterni (k26\_quaterni X0 X1) X1)) \quad (3)$$

Assume the following.

$$\forall X0. (v1\_quaterni X0) \Rightarrow (k8\_quaterni (k8\_quaterni X0) = X0) \quad (4)$$

Assume the following.

$$\forall X0. (v1\_quaterni X0) \Rightarrow (v1\_quaterni (k8\_quaterni X0)) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_quaterni X0) \wedge (v1\_quaterni X1)) \Rightarrow (m1\_subset.1 (k29\_quaterni X0 X1) k1\_quaterni) \quad (6)$$

Assume the following.

$$\forall X0. (v1\_quaterni X0) \Rightarrow (\forall X1. (v1\_quaterni X1) \Rightarrow (k9\_quaterni X0 X1 = k7\_quaterni X0 (k8\_quaterni X1))) \quad (7)$$

Assume the following.

$$\forall X0. (m1\_subset.1 X0 k1\_quaterni) \Rightarrow (v1\_quaterni X0) \quad (8)$$

**Theorem 1**

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (\forall X1.(v1\_quaterni\ X1) \Rightarrow (X0 = k26\_quaterni\ (k29\_quaterni\ X0\ X1)\ X1))$$