

t8\_quatern3  
(TMGzfg6sAWj9kcLRcRukRbgEyjdNEWH3C2e)

October 27, 2020

Let  $v1\_quaterni : \iota \Rightarrow o$  be given. Let  $k29\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_quatern2 : \iota$  be given. Let  $k26\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset.1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_quaterni : \iota$  be given. Assume the following.

$$\forall X0.(v1\_quaterni X0) \Rightarrow (\forall X1.(v1\_quaterni X1) \Rightarrow (X0 = k29\_quaterni (k26\_quaterni X0 X1) X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_quaterni X0) \Rightarrow (k26\_quaterni X0 k1\_quatern2 = X0) \quad (2)$$

Assume the following.

$$m1\_subset.1 k1\_quatern2 k1\_quaterni \quad (3)$$

Assume the following.

$$\forall X0.(m1\_subset.1 X0 k1\_quaterni) \Rightarrow (v1\_quaterni X0) \quad (4)$$

**Theorem 1**  $\forall X0.(v1\_quaterni X0) \Rightarrow (k29\_quaterni X0 k1\_quatern2 = X0)$ .