

t39_quatern3 (TMJBAMGQQtWYUQd- vuvM14JaSkBSUrkdDCeZR)

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Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_quatern2 : \iota \Rightarrow \iota$ be given. Let $k10_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k26_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k29_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k32_quaterni : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_quaterni : \iota$ be given. Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (\forall X1.(v1_quaterni X1) \Rightarrow (k32_quaterni (k29_quaterni X0 X1) = k32_quaterni (k29_quaterni X1 X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (\forall X1.(v1_quaterni X1) \Rightarrow (r1_xreal_0 (k9_real_1 (k3_quatern2 X0) (k3_quatern2 X1)) (k10_real_1 (k7_real_1 (k3_quatern2 (k26_quaterni X0 X1)) (k3_quatern2 (k29_quaterni X0 X1))) np_2))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (k3_quatern2 X0 = k32_quaterni X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v1_quaterni X0) \wedge (v1_quaterni X1)) \Rightarrow (m1_subset_1 (k29_quaterni X0 X1) k1_quaterni) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1_quaterni X0) \wedge (v1_quaterni X1)) \Rightarrow (m1_subset_1 (k26_quaterni X0 X1) k1_quaterni) \quad (5)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_quaterni) \Rightarrow (v1_quaterni X0) \quad (6)$$

Theorem 1

$$\forall X0.(v1_quaterni\ X0)\Rightarrow(\forall X1.(v1_quaterni\ X1)\Rightarrow(r1_xxreal_0$$
$$(k9_real_1\ (k3_quatern2\ X0)\ (k3_quatern2\ X1))\ (k10_real_1\ (k7_real_1$$
$$(k3_quatern2\ (k26_quaterni\ X0\ X1))\ (k3_quatern2\ (k29_quaterni$$
$$X1\ X0)))\ np_2)))$$