

t10_quatern2
(TMZwF9N4Ug7aEncDpGVuwnCvNY9LukQwytv)

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Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_quatern2 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k32_quaterni : \iota \Rightarrow \iota$ be given. Let $np_0 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (r1_xxreal_0 k6_numbers (k32_quaterni X0)) \quad (2)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (k3_quatern2 X0 = k32_quaterni X0) \quad (5)$$

Assume the following.

$$\exists X0.(v1_xboole_0 X0) \wedge ((v1_xcmplx_0 X0) \wedge ((v1_xxreal_0 X0) \wedge (v1_xreal_0 X0))) \quad (6)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1))) \quad (7)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow ((k3_quatern2 X0 = k6_numbers) \Rightarrow (X0 = k6_numbers)) \quad (8)$$

Assume the following.

$$\forall X0.(v1_quaterni\ X0) \Rightarrow (v1_xreal_0\ (k32_quaterni\ X0)) \quad (9)$$

Theorem 1

$$\forall X0.(v1_quaterni\ X0) \Rightarrow (\neg(X0 \neq k6_numbers) \wedge (r1_xreal_0\ (k3_quatern2\ X0)\ k6_numbers))$$