t26_quatern2 (TMJG1rtq6zJxHBTmoDL7Mmbbkc5SMp3bzjz)

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Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $k31\_quaterni : \iota \Rightarrow \iota$ be given. Let $k17\_quaterni : \iota \Rightarrow \iota$ be given. Let $k18\_quaterni : \iota \Rightarrow \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $k19\_quaterni : \iota \Rightarrow \iota$ be given. Let $k20\_quaterni : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k1\_quaterni : \iota$ be given. Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow ((k17\_quaterni\ (k31\_quaterni\ X0) = k17\_quaterni\ X0) \wedge ((k18\_quaterni\ (k31\_quaterni\ X0) = k1\_real\_1\ (k18\_quaterni\ X0)) \wedge ((k19\_quaterni\ (k31\_quaterni\ X0) = k1\_real\_1\ (k19\_quaterni\ X0)) \wedge (k20\_quaterni\ (k31\_quaterni\ X0) = k1\_real\_1\ (k20\_quaterni\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (\forall X1.(v1\_quaterni\ X1) \Rightarrow (((k17\_quaterni\ X0 = k17\_quaterni\ X1) \wedge ((k18\_quaterni\ X0 = k18\_quaterni\ X1) \wedge ((k19\_quaterni\ X0 = k19\_quaterni\ X1) \wedge (k20\_quaterni\ X0 = k20\_quaterni\ X1)))) \Rightarrow (X0 = X1))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (k1\_real\_1\ (k1\_real\_1\ X0) = X0) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k31\_quaterni\ X0)\ k1\_quaterni) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k20\_quaterni\ X0)\ k1\_numbers) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k19\_quaterni\ X0)\ k1\_numbers) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k18\_quaterni\ X0)\ k1\_numbers) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_quaterni) \Rightarrow (v1\_quaterni\ X0) \tag{8}$$

Theorem 1 $\forall X0.(v1\_quaterni\ X0) \Rightarrow (k31\_quaterni\ (k31\_quaterni\ X0) = X0)$.