

t14_quatern3 (TM-
cNU9uCyKmwF2XxJDi56deHVRQ6sMZ3GF5)

October 27, 2020

Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k17_quaterni : \iota \Rightarrow \iota$ be given. Let $k26_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k31_quaterni : \iota \Rightarrow \iota$ be given. Let $k18_quaterni : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k19_quaterni : \iota \Rightarrow \iota$ be given. Let $k20_quaterni : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. (v1_quaterni X0) \Rightarrow ((k17_quaterni (k26_quaterni X0 \\ (k31_quaterni X0)) = k8_real_1 np_2 (k17_quaterni X0)) \wedge ((k18_quaterni \\ (k26_quaterni X0 (k31_quaterni X0)) = k6_numbers) \wedge ((k19_quaterni \\ (k26_quaterni X0 (k31_quaterni X0)) = k6_numbers) \wedge (k20_quaterni \\ (k26_quaterni X0 (k31_quaterni X0)) = k6_numbers)))) \end{aligned} \quad (1)$$

Theorem 1

$$\forall X0. (v1_quaterni X0) \Rightarrow (k8_real_1 np_2 (k17_quaterni X0) = \\ k17_quaterni (k26_quaterni X0 (k31_quaterni X0)))$$