

t63_quaterni (TMJK- FWFWadW5z2byAqECYgCDAZz2p5una9f)

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Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $k29_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_quaterni : \iota \Rightarrow \iota$ be given. Let $k18_quaterni : \iota \Rightarrow \iota$ 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 $k1_quaterni : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_quaterni X0) \Rightarrow (\forall X1.(v1_quaterni X1) \Rightarrow ((\\ k17_quaterni (k29_quaterni X0 X1) = k9_real_1 (k17_quaterni X0) \\ (k17_quaterni X1)) \wedge ((k18_quaterni (k29_quaterni X0 X1) = k9_real_1 \\ (k18_quaterni X0) (k18_quaterni X1)) \wedge ((k19_quaterni (k29_quaterni \\ X0 X1) = k9_real_1 (k19_quaterni X0) (k19_quaterni X1)) \wedge (k20_quaterni \\ (k29_quaterni X0 X1) = k9_real_1 (k20_quaterni X0) (k20_quaterni \\ X1)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_quaterni X0) \Rightarrow (X0 = k6_quaterni (k17_quaterni X0) \\ (k18_quaterni X0) (k19_quaterni X0) (k20_quaterni X0)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1_quaterni X0) \wedge (v1_quaterni X1)) \Rightarrow (\\ m1_subset_1 (k29_quaterni X0 X1) k1_quaterni) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_quaterni) \Rightarrow (v1_quaterni X0) \tag{4}$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_quaterni X0) \Rightarrow (\forall X1.(v1_quaterni X1) \Rightarrow (k29_quaterni \\ X0 X1 = k6_quaterni (k9_real_1 (k17_quaterni X0) (k17_quaterni \\ X1)) (k9_real_1 (k18_quaterni X0) (k18_quaterni X1)) (k9_real_1 \\ (k19_quaterni X0) (k19_quaterni X1)) (k9_real_1 (k20_quaterni \\ X0) (k20_quaterni X1)))) \end{aligned}$$