

t94_chord

(TMQ5YdPrYMVRkjuvSJQaMkrEosWWJ5yM6SsE)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_glib_000 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k6_glib_000 : \iota \Rightarrow \iota$ be given. Let $m2_glib_000 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k21_glib_000 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m3_glib_001 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_chord : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\
 & \quad X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1.((\neg \\
 & v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k6_glib_000 X0)))))) \Rightarrow \\
 & (\forall X2.(m2_glib_000 X2 X0 X1 (k21_glib_000 X0 X1)) \Rightarrow (\forall X3. \\
 & (m3_glib_001 X3 X0) \Rightarrow (\forall X4.(m3_glib_001 X4 X2) \Rightarrow ((X3 = X4) \Rightarrow \\
 & \quad ((v5_chord X4 X2) \Leftrightarrow (v5_chord X3 X0))))))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\
 & \quad X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1.((\neg \\
 & v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k6_glib_000 X0)))))) \Rightarrow \\
 & (\forall X2.(m2_glib_000 X2 X0 X1 (k21_glib_000 X0 X1)) \Rightarrow (\forall X3. \\
 & (m3_glib_001 X3 X0) \Rightarrow (\forall X4.(m3_glib_001 X4 X2) \Rightarrow ((X3 = X4) \Rightarrow \\
 & \quad ((\neg(\neg v5_chord X3 X0) \wedge (v5_chord X4 X2)) \wedge (\neg(\neg v5_chord X4 X2) \wedge (v5_chord \\
 & \quad X3 X0))))))
 \end{aligned}$$