

t78_chord
(TMdpWf3Ypf554Uiups5S4P79EcagnmoBDrP)

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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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_glib_000 : \iota \Rightarrow \iota$ be given. Let $m2_chord : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v4_chord : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(r1_tarski X0 k1_xboole_0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 (k6_glib_000 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (k6_glib_000 \\ X0)) \Rightarrow (\forall X3.(m2_chord X3 X0 X1 X2) \Rightarrow ((v4_chord X3 X0 X1 X2) \Leftrightarrow \\ (\forall X4.(m1_subset_1 X4 (k1_zfmisc_1 X3)) \Rightarrow (\neg(X4 \neq X3) \wedge (m2_chord \\ X4 X0 X1 X2))))))) \quad (3) \end{aligned}$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 (k6_glib_000 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (k6_glib_000 \\ X0)) \Rightarrow (\forall X3.(m2_chord X3 X0 X1 X2) \Rightarrow ((X3 = k1_xboole_0) \Rightarrow (v4_chord \\ X3 X0 X1 X2)))))) \end{aligned}$$