

t49_chord

(TMQC2Pb4qRboNamtBjZ3i7h53Mks6gCU2cr)

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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 $k2_chord : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_glib_000 : \iota \Rightarrow \iota$ be given. Let $r1_chord : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. & ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ & X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1. k2_chord \\ & X0 X1 = ReplSep (toset (\lambda X2 : \iota. m1_subset_1 X2 (k6_glib_000 \\ & X0))) (\lambda X2 : \iota. (\neg X2 \in X1) \wedge (\exists X3. (m1_subset_1 X3 (k6_glib_000 \\ & X0)) \wedge ((X3 \in X1) \wedge (r1_chord X0 X2 X3)))))) (\lambda X2 : \iota. X2) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0. & ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ & X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1. \forall X2. \\ & \neg (X2 \in k2_chord X0 X1) \wedge (X2 \in X1)) \end{aligned}$$