

t20_metrizts

(TMUTwimq1ymcP6p74wXiehfW9jAqs58xDKC)

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Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v3_pcomps_1 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_waybel23 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v2_tex_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v4_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v2_pre_topc X0) \wedge ((v3_pcomps_1 X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow (\forall X1.((\neg v1_finset_1 X1) \wedge (v1_card_1 X1)) \Rightarrow ((r1_ordinal1 \\ (k2_waybel23 X0) X1) \Leftrightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ (u1_struct_0 X0)))) \Rightarrow (((v4_pre_topc X2 X0) \wedge (v2_tex_2 X2 X0)) \Rightarrow (\\ r1_ordinal1 (k1_card_1 X2) X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v1_finset_1 X0) \wedge (v1_card_1 X0)) \Rightarrow (\forall X1.(\\ (v2_pre_topc X1) \wedge ((v3_pcomps_1 X1) \wedge (l1_pre_topc X1))) \Rightarrow ((\forall X2. \\ (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X1))) \Rightarrow (((v4_pre_topc \\ X2 X1) \wedge (v2_tex_2 X2 X1)) \Rightarrow (r1_ordinal1 (k1_card_1 X2) X0))) \Rightarrow (\forall X2. \\ (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X1))) \Rightarrow ((v2_tex_2 X2 \\ X1) \Rightarrow (r1_ordinal1 (k1_card_1 X2) X0)))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.((v2_pre_topc X0) \wedge ((v3_pcomps_1 X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow (\forall X1.((\neg v1_finset_1 X1) \wedge (v1_card_1 X1)) \Rightarrow ((r1_ordinal1 \\ (k2_waybel23 X0) X1) \Leftrightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ (u1_struct_0 X0)))) \Rightarrow ((v2_tex_2 X2 X0) \Rightarrow (r1_ordinal1 (k1_card_1 \\ X2) X1)))))) \end{aligned}$$