

l36_metrizts

(TMQVQJJpZTD2QxtFWCLYGdybY8e62Uaoigz)

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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 $v1_metrizts : \iota \Rightarrow o$ be given. Let $v7_topgen_1 : \iota \Rightarrow o$ 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 $k4_topgen_1 : \iota \Rightarrow \iota$ be given. Let $v5_waybel23 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v2_pre_topc X0) \wedge ((v3_pcomps_1 X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow (\forall X1.((\neg v1_finset_1 X1) \wedge (v1_card_1 X1)) \Rightarrow ((r1_ordinal1 \\ (k2_waybel23 X0) X1) \Leftrightarrow (r1_ordinal1 (k4_topgen_1 X0) X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.((v2_pre_topc X0) \wedge ((v3_pcomps_1 X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow ((v1_metrizts X0) \Leftrightarrow (v5_waybel23 X0)) \quad (2)$$

Assume the following.

$$\neg v1_finset_1 k4_ordinal1 \quad (3)$$

Assume the following.

$$v1_card_1 k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow ((v5_waybel23 X0) \Leftrightarrow (r1_ordinal1 \\ (k2_waybel23 X0) k4_ordinal1)) \quad (5)$$

Assume the following.

$$\forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow ((v7_topgen_1 \\ X0) \Leftrightarrow (r1_ordinal1 (k4_topgen_1 X0) k4_ordinal1)) \quad (6)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (((v2_pre_topc X0) \wedge ((v3_pcomps_1 \\ X0) \wedge (v1_metrizts X0))) \Rightarrow ((v2_pre_topc X0) \wedge ((v5_waybel23 X0) \wedge \\ (v3_pcomps_1 X0)))) \quad (7)$$

Theorem 1

$$\forall X0.((v2_pre_topc\ X0)\wedge((v3_pcomps_1\ X0)\wedge(l1_pre_topc\ X0)))\Rightarrow((v1_metrizts\ X0)\Leftrightarrow(v7_topgen_1\ X0))$$