

l18_metrizts

(TMV2npGs5Jr6wHeUQopfWvEZbXc2e8Xp4Q3)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $k2_card_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Assume the following.

$$\forall X0. (\neg v1_finset_1 X0) \Rightarrow (k1_card_1 X0 = k2_card_2 k4_ordinal1 (k1_card_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. r2_wellord2 X0 X0 \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (v1_card_1 X1) \Rightarrow ((X1 = k1_card_1 X0) \Leftrightarrow (r2_wellord2 X0 X1)) \quad (4)$$

Theorem 1

$$\forall X0. ((\neg v1_finset_1 X0) \wedge (v1_card_1 X0)) \Rightarrow (k2_card_2 k4_ordinal1 X0 = X0)$$