

t36_card_5 (TMEnZcSVaeAGFBWqZ- DAq9bgSWVoStWMmjNE)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_finset.1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_wellord2 : \iota \Rightarrow \iota$ be given. Let $k1_wellord2 : \iota \Rightarrow \iota$ be given. Let $k5_card.1 : \iota \Rightarrow \iota$ be given. Let $k1_card.1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_finseq.1 : \iota \Rightarrow \iota$ be given. Let $v1_relat.1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(r1_tarski X1 X0) \Rightarrow (k1_card.1 X1 = k1_card.1 (k2_wellord2 (k1_wellord2 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k5_card.1 (k2_finseq.1 X0) = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k5_card.1 (k2_finseq.1 X0) = k5_card.1 X0) \quad (3)$$

Assume the following.

$$\forall X0.(v1_finset.1 X0) \Rightarrow (k5_card.1 X0 = k1_card.1 X0) \quad (4)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v1_finset.1 X1) \Rightarrow ((r1_tarski X1 X0) \Rightarrow (v1_finset.1 (k2_wellord2 (k1_wellord2 X1)))))) \quad (5)$$

Assume the following.

$$\forall X0.(v1_relat.1 X0) \Rightarrow (v3_ordinal1 (k2_wellord2 X0)) \quad (6)$$

Assume the following.

$$\forall X0.v1_relat.1 (k1_wellord2 X0) \quad (7)$$

Assume the following.

$$\forall X0.((v3_ordinal1 X0) \wedge (v1_finset.1 X0)) \Rightarrow (v7_ordinal1 X0) \quad (8)$$

Theorem 1

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v1_finset.1 X1) \Rightarrow ((r1_tarski X1 X0) \Rightarrow (k2_wellord2 (k1_wellord2 X1) = k5_card.1 X1)))$$