

t7_algseq_1
(TMJmXbyxSxg9AMfzu9yEsSBzcgwJZn3CnzF)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k7_card_1 : \iota \Rightarrow \iota$ be given. Let $k9_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \Rightarrow ((k7_card_1 X0 = k9_subset_1 k4_ordinal1 (k7_card_1 X0) (k7_card_1 X1)) \wedge (k7_card_1 X0 = k9_subset_1 k4_ordinal1 (k7_card_1 X1) (k7_card_1 X0)))))) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k7_card_1 X0 = k6_card_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k6_card_1 X0 = X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow ((r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X1 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_xxreal_0 X0) \quad (5)$$

Theorem 1

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((k7_card_1 X0 = k9_subset_1 k4_ordinal1 (k7_card_1 X0) (k7_card_1 X1)) \vee (k7_card_1 X0 = k9_subset_1 k4_ordinal1 (k7_card_1 X1) (k7_card_1 X0))) \Rightarrow (r1_xxreal_0 X0 X1)))$$