

t24_arytm_3
(TMWU7TVi6QuT59JRS7avDbiCosBqCipULLP)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_arytm_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_arytm_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (r1_arytm_3 np_1 X0) \quad (1)$$

Assume the following.

$$\forall X0.((v3_ordinal1 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (\forall X1. ((v3_ordinal1 X1) \wedge (v7_ordinal1 X1)) \Rightarrow ((r1_arytm_3 X0 X1) \Rightarrow (k4_arytm_3 X0 X1 = X0))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1.(v3_ordinal1 X1) \Rightarrow ((X0 \in X1) \Rightarrow (v3_ordinal1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1.((v3_ordinal1 X0) \wedge (v3_ordinal1 X1)) \Rightarrow ((r1_arytm_3 X0 X1) \Rightarrow (r1_arytm_3 X1 X0)) \quad (4)$$

Assume the following.

$$np_1 \in k4_ordinal1 \quad (5)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (6)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Leftrightarrow (X0 \in k4_ordinal1) \quad (7)$$

Assume the following.

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

Theorem 1

$$\forall X0.((v3_ordinal1 X0) \wedge (v7_ordinal1 X0)) \Rightarrow ((k4_arytm_3 X0 np_1 = X0) \wedge (k4_arytm_3 np_1 X0 = np_1))$$