

t38_arytm_3

(TMJBqiiel1yrFmUUFgvoLgNCu4bVQYT2DkKN)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_arytm_3 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k7_arytm_3 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_arytm_3 : \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_arytm_3) \Rightarrow ((\neg X0 \in k4_ordinal1) \Rightarrow \\ ((X0 = k4_tarski (k6_arytm_3 X0) (k7_arytm_3 X0)) \wedge (k7_arytm_3 X0) \wedge (X0 \neq np_1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k5_arytm_3) \Rightarrow (m1_subset_1 (k7_arytm_3 X0) k4_ordinal1) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_arytm_3) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k4_ordinal1) \Rightarrow (((X0 \in k4_ordinal1) \Rightarrow ((X1 = k7_arytm_3 X0) \Leftrightarrow (X1 = \\ np_1))) \wedge ((\neg X0 \in k4_ordinal1) \Rightarrow ((X1 = k7_arytm_3 X0) \Leftrightarrow (\exists X2. \\ ((v3_ordinal1 X2) \wedge (v7_ordinal1 X2)) \wedge (X0 = k4_tarski X2 X1)))))) \end{aligned} \quad (3)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k5_arytm_3) \Rightarrow ((X0 \in k4_ordinal1) \Leftrightarrow (k7_arytm_3 X0 = np_1))$$