

l43_arytm_3

(TMNin3MvmzLyH4QgM2WBToEUF7eCiTFz8S1)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k5_arytm_3 : \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_arytm_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 (k2_xboole_0 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} k5_arytm_3 = & k2_xboole_0 (k6_subset_1 (ReplSep2 (toset (\lambda X0 : \\ & \iota.m1_subset_1 X0 k4_ordinal1)) (\lambda X0 : \iota.toset (\lambda X1 : \\ & \iota.m1_subset_1 X1 k4_ordinal1)) (\lambda X0 : \iota.\lambda X1 : \iota.(r1_arytm_3 \\ & X0 X1) \wedge (X1 \neq k1_xboole_0)) (\lambda X0 : \iota.\lambda X1 : \iota.k4_tarski \\ & X0 X1)) (ReplSep (toset (\lambda X0 : \iota.m1_subset_1 X0 k4_ordinal1)) \\ & (\lambda X0 : \iota.True) (\lambda X0 : \iota.k4_tarski X0 np_1))) k4_ordinal1 \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (3)$$

Theorem 1 $r1_tarski k4_ordinal1 k5_arytm_3$.