

t1_arytm_2

(TMPYSXMeCHRU5HuNv7Ckh5WTDdRkFkMWiGv)

October 27, 2020

Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_arytm_3 : \iota$ be given. Let $k2_arytm_2 : \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $r3_arytm_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k11_arytm_3 : \iota$ be given. Let $k1_arytm_2 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_xboole_0 X0 X2)) \Rightarrow (r1_tarski X0 (k4_xboole_0 X1 X2)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 (k2_xboole_0 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \quad (3)$$

Assume the following.

$$\begin{aligned} & r1_xboole_0 k5_arytm_3 (ReplSep (toset (\lambda X0 : \iota. m1_subset_1 \\ & X0 k5_arytm_3)) (\lambda X0 : \iota. X0 \neq k11_arytm_3) (\lambda X0 : \iota. ReplSep \\ & (toset (\lambda X1 : \iota. m1_subset_1 X1 k5_arytm_3)) (\lambda X1 : \iota. \\ & \neg r3_arytm_3 X0 X1) (\lambda X1 : \iota. X1)))) \quad (4) \end{aligned}$$

Assume the following.

$$\begin{aligned} & k2_arytm_2 = k6_subset_1 (k2_xboole_0 k5_arytm_3 k1_arytm_2) \\ & (ReplSep (toset (\lambda X0 : \iota. m1_subset_1 X0 k5_arytm_3)) (\lambda X0 : \\ & \iota. X0 \neq k11_arytm_3) (\lambda X0 : \iota. ReplSep (toset (\lambda X1 : \iota. \\ & m1_subset_1 X1 k5_arytm_3)) (\lambda X1 : \iota. \neg r3_arytm_3 X0 X1) (\lambda X1 : \\ & \iota. X1)))) \quad (5) \end{aligned}$$

Theorem 1 $r1_tarski k5_arytm_3 k2_arytm_2$.