

l9_arytm_2 (TML- Rhh4nzwaHMjHeHsSoh6kpBLE14fFWMSF)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k5_arytm_3 : \iota$ be given. Let $k1_arytm_2 : \iota$ 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 $k2_arytm_2 : \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. \forall X2. k4_xboole_0 (k2_xboole_0 X0 X1) X2 = k2_xboole_0 (k4_xboole_0 X0 X2) (k4_xboole_0 X1 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (k7_subset_1 X0 X1 X2 = k4_xboole_0 X1 X2) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \quad (4)$$

Assume the following.

$$m1_subset_1 k1_arytm_2 (k1_zfmisc_1 (k1_zfmisc_1 k5_arytm_3)) \quad (5)$$

Assume the following.

$$\begin{aligned} k2_arytm_2 = & k6_subset_1 (k2_xboole_0 k5_arytm_3 k1_arytm_2) \\ & (ReplSep (toset (\lambda X0 : \iota. m1_subset_1 X0 k5_arytm_3)) (\lambda X0 : \\ & \quad \iota. X0 \neq k11_arytm_3) (\lambda X0 : \iota. ReplSep (toset (\lambda X1 : \iota. \\ & \quad m1_subset_1 X1 k5_arytm_3)) (\lambda X1 : \iota. \neg r3_arytm_3 X0 X1) (\lambda X1 : \\ & \quad \iota. X1)))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (7)$$

Theorem 1

$r1_tarski (k7_subset_1 (k1_zfmisc_1 k5_arytm_3) k1_arytm_2 ($
 $ReplSep (toset (\lambda X0 : \iota.m1_subset_1 X0 k5_arytm_3)) (\lambda X0 :$
 $\iota.X0 \neq k11_arytm_3) (\lambda X0 : \iota.ReplSep (toset (\lambda X1 : \iota.$
 $m1_subset_1 X1 k5_arytm_3)) (\lambda X1 : \iota.\neg r3_arytm_3 X0 X1) (\lambda X1 :$
 $\iota.X1)))) k2_arytm_2$