

l6_arytm_2

(TMX9FcHuiCx4oRSACt2wrbdenoL1VdAAArQ)

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Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r3_arytm_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarSKI : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (r1_tarSKI X0 X1) \Rightarrow (r1_tarSKI (k2_xboole_0 X0 X2) (k2_xboole_0 X1 X2)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarSKI X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 (k6_subset_1 X0 X1) (k1_zfmisc_1 X0) \quad (3)$$

Assume the following.

$$\begin{aligned} k1_arytm_2 = & k6_subset_1 (ReplSep (toset (\lambda X0 : \iota. m1_subset_1 \\ & X0 (k1_zfmisc_1 k5_arytm_3))) (\lambda X0 : \iota. \forall X1. (m1_subset_1 \\ & X1 k5_arytm_3) \Rightarrow ((X1 \in X0) \Rightarrow ((\forall X2. (m1_subset_1 X2 k5_arytm_3) \Rightarrow \\ & ((r3_arytm_3 X2 X1) \Rightarrow (X2 \in X0))) \wedge (\exists X2. (m1_subset_1 X2 k5_arytm_3) \wedge \\ & ((X2 \in X0) \wedge (\neg r3_arytm_3 X2 X1)))))) (\lambda X0 : \iota. X0)) (k1_tarSKI \\ & k5_arytm_3) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (5)$$

Theorem 1

$$\begin{aligned} & r1_tarSKI (k2_xboole_0 k5_arytm_3 k1_arytm_2) (k2_xboole_0 k5_arytm_3 \\ & (ReplSep (toset (\lambda X0 : \iota. m1_subset_1 X0 (k1_zfmisc_1 k5_arytm_3))) \\ & (\lambda X0 : \iota. \forall X1. (m1_subset_1 X1 k5_arytm_3) \Rightarrow ((X1 \in X0) \Rightarrow \\ & ((\forall X2. (m1_subset_1 X2 k5_arytm_3) \Rightarrow ((r3_arytm_3 X2 X1) \Rightarrow \\ & (X2 \in X0))) \wedge (\exists X2. (m1_subset_1 X2 k5_arytm_3) \wedge ((X2 \in X0) \wedge \\ & (\neg r3_arytm_3 X2 X1)))))) (\lambda X0 : \iota. X0))) \end{aligned}$$