l35_arytm_2 (TMYQJJXV1g78dPKqZfQB2HvR3LCz18W2xHS)

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Let $k1\_arytm\_2 : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_arytm\_3 : \iota$ be given. Let $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r3\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.(X0 \in k4\_xboole\_0\ X1\ (k1\_tarski\ X2)) \Leftrightarrow ((X0 \in X1) \wedge (X0 \neq X2)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \Rightarrow ((\forall X2.(m1\_subset\_1\ X2\ X0) \Rightarrow (X2 \in X1)) \Rightarrow (X0 = X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.k6\_subset\_1\ X0\ X1 = k4\_xboole\_0\ X0\ X1 \tag{3}$$

Assume the following.

$$k1\_arytm\_2 = k6\_subset\_1\ (ReplSep\ (toset\ (\lambda X0 : \iota.m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k5\_arytm\_3)))\ (\lambda X0 : \iota.\forall X1.(m1\_subset\_1\ X1\ k5\_arytm\_3) \Rightarrow ((X1 \in X0) \Rightarrow ((\forall X2.(m1\_subset\_1\ X2\ k5\_arytm\_3) \Rightarrow ((r3\_arytm\_3\ X2\ X1) \Rightarrow (X2 \in X0))) \wedge (\exists X2.(m1\_subset\_1\ X2\ k5\_arytm\_3) \wedge ((X2 \in X0) \wedge (\neg r3\_arytm\_3\ X2\ X1))))))\ (\lambda X0 : \iota.X0))\ (k1\_tarski\ k5\_arytm\_3) \tag{4}$$

Theorem 1

$$\forall X0.\neg(X0 \in k1\_arytm\_2) \wedge (\forall X1.(m1\_subset\_1\ X1\ k5\_arytm\_3) \Rightarrow (X1 \in X0))$$