# l22_arytm_2 (TManVD4sSaHzJ3dLARuk1CQzgCh5puheaqP)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k5\_arytm\_3 : \iota$ be given. Let $r3\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X2))) \Rightarrow (m1\_subset\_1\ X0\ X2) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ X1)) \Leftrightarrow (r1\_tarski\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1\ X0\ X1) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ X0\ X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k5\_arytm\_3) \wedge (m1\_subset\_1\ X1\ k5\_arytm\_3)) \Rightarrow ((r3\_arytm\_3\ X0\ X1) \vee (r3\_arytm\_3\ X1\ X0)) \tag{5}$$

**Theorem 1**

$$\forall X0.\forall X1.\neg(X0 \in ReplSep\ (toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ k5\_arytm\_3)))\ (\lambda X2 : \iota.\forall X3.(m1\_subset\_1\ X3\ k5\_arytm\_3) \Rightarrow ((X3 \in X2) \Rightarrow ((\forall X4.(m1\_subset\_1\ X4\ k5\_arytm\_3) \Rightarrow ((r3\_arytm\_3\ X4\ X3) \Rightarrow (X4 \in X2))) \wedge (\exists X4.(m1\_subset\_1\ X4\ k5\_arytm\_3) \wedge ((X4 \in X2) \wedge (\neg r3\_arytm\_3\ X4\ X3))))))\ (\lambda X2 : \iota.X2)) \wedge ((X1 \in ReplSep\ (toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ k5\_arytm\_3)))\ (\lambda X2 : \iota.\forall X3.(m1\_subset\_1\ X3\ k5\_arytm\_3) \Rightarrow ((X3 \in X2) \Rightarrow ((\forall X4.(m1\_subset\_1\ X4\ k5\_arytm\_3) \Rightarrow ((r3\_arytm\_3\ X4\ X3) \Rightarrow (X4 \in X2))) \wedge (\exists X4.(m1\_subset\_1\ X4\ k5\_arytm\_3) \wedge ((X4 \in X2) \wedge (\neg r3\_arytm\_3\ X4\ X3))))))\ (\lambda X2 : \iota.X2)) \wedge ((\neg r1\_tarski\ X0\ X1) \wedge (\neg r1\_tarski\ X1\ X0)))$$