

# l26\_arytm\_2

## (TMLG4FmBGDJok5Ew7hfkpw31rnee44oddVJ)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_arytm\_3 : \iota$  be given. Let  $k1\_arytm\_2 : \iota$  be given. Let  $r3\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \neg(X0 \in X1) \wedge ((m1\_subset\_1 X1 (k1\_zfmisc\_1 X2)) \wedge (v1\_xboole\_0 X2)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X2))) \Rightarrow (m1\_subset\_1 X0 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. m1\_subset\_1 (k6\_subset\_1 X0 X1) (k1\_zfmisc\_1 X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1\_xboole\_0 X0) \Rightarrow ((m1\_subset\_1 X1 X0) \Leftrightarrow (X1 \in X0))) \wedge ((v1\_xboole\_0 X0) \Rightarrow ((m1\_subset\_1 X1 X0) \Leftrightarrow (v1\_xboole\_0 X1))) \quad (4)$$

Assume the following.

$$k1\_arytm\_2 = k6\_subset\_1 (ReplSep (toset (\lambda X0 : \iota. m1\_subset\_1 X0 (k1\_zfmisc\_1 k5\_arytm\_3))) (\lambda X0 : \iota. \forall X1. (m1\_subset\_1 X1 k5\_arytm\_3) \Rightarrow ((X1 \in X0) \Rightarrow ((\forall X2. (m1\_subset\_1 X2 k5\_arytm\_3) \Rightarrow ((r3\_arytm\_3 X2 X1) \Rightarrow (X2 \in X0)))) \wedge (\exists X2. (m1\_subset\_1 X2 k5\_arytm\_3) \wedge ((X2 \in X0) \wedge (\neg r3\_arytm\_3 X2 X1)))))) (\lambda X0 : \iota. X0)) (k1\_tarski k5\_arytm\_3) \quad (5)$$

### Theorem 1

$$\forall X0. (m1\_subset\_1 X0 k5\_arytm\_3) \Rightarrow (\forall X1. (m1\_subset\_1 X1 k5\_arytm\_3) \Rightarrow (\forall X2. ((X2 \in k1\_arytm\_2) \wedge ((X0 \in X2) \wedge (r3\_arytm\_3 X1 X0))) \Rightarrow (X1 \in X2)))$$