

# l25\_arytm\_2

(TMdN51CCXj1b4Di1mgWtsEXgwpnURmCBo9W)

October 27, 2020

Let  $k1\_arytm\_2 : \iota$  be given. Let  $k11\_arytm\_3 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_arytm\_3 : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r3\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \neg(X0 \neq k1\_xboole\_0) \wedge (\forall X1. \neg(X1 \in X0) \wedge (\forall X2. \\ & \forall X3. \neg((X2 \in X0) \vee (X3 \in X0)) \wedge (X1 = k4\_tarSKI\ X2\ X3))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. (m1\_subset\_1\ X0\ k5\_arytm\_3) \Rightarrow (r3\_arytm\_3\ k11\_arytm\_3\ X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X2))) \Rightarrow (m1\_subset\_1\ X0\ X2) \quad (3)$$

Assume the following.

$$k11\_arytm\_3 = k1\_xboole\_0 \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1\_subset\_1\ X0\ k5\_arytm\_3) \Rightarrow (\forall X1. \neg(X1 \in k1\_arytm\_2) \wedge \\ & ((X0 \in X1) \wedge (\forall X2. (m1\_subset\_1\ X2\ k5\_arytm\_3) \Rightarrow (\neg(X2 \in X1) \wedge \\ & (\neg r3\_arytm\_3\ X2\ X0)))))) \end{aligned} \quad (5)$$

Assume the following.

$$m1\_subset\_1\ k1\_arytm\_2\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ k5\_arytm\_3)) \quad (6)$$

### Theorem 1

$$\begin{aligned} & \forall X0. \neg(X0 \in k1\_arytm\_2) \wedge ((X0 \neq k11\_arytm\_3) \wedge (\forall X1. \\ & (m1\_subset\_1\ X1\ k5\_arytm\_3) \Rightarrow (\neg(X1 \in X0) \wedge (X1 \neq k11\_arytm\_3)))) \end{aligned}$$