t75_arytm_3 (TMF1pGzjyW4YNkrHmkBVG9nBix6dgMs6wgh)

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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 $k11\_arytm\_3 : \iota$ be given. Let $r3\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_arytm\_3) \Rightarrow (\neg(X0 \neq k11\_arytm\_3) \wedge (\forall X1.(m1\_subset\_1\ X1\ k5\_arytm\_3) \Rightarrow (\neg(\neg r3\_arytm\_3\ X0\ X1) \wedge (\neg X1 \in k4\_ordinal1)))) \tag{1}$$

Assume the following.

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

Assume the following.

$$k11\_arytm\_3 = k1\_xboole\_0 \tag{3}$$

Assume the following.

$$k1\_xboole\_0 \in k4\_ordinal1 \tag{4}$$

Assume the following.

$$m1\_subset\_1\ k11\_arytm\_3\ k5\_arytm\_3 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k5\_arytm\_3) \wedge (m1\_subset\_1\ X1\ k5\_arytm\_3)) \Rightarrow ((r3\_arytm\_3\ X0\ X1) \vee (r3\_arytm\_3\ X1\ X0)) \tag{6}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k5\_arytm\_3)) \Rightarrow (\neg(\exists X1.(m1\_subset\_1\ X1\ k5\_arytm\_3) \wedge ((X1 \in X0) \wedge (X1 \neq k11\_arytm\_3))) \wedge (\forall X1.(m1\_subset\_1\ X1\ k5\_arytm\_3) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_arytm\_3) \Rightarrow (((X1 \in X0) \wedge (r3\_arytm\_3\ X2\ X1)) \Rightarrow (X2 \in X0)))) \wedge (\forall X1.(m1\_subset\_1\ X1\ k5\_arytm\_3) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_arytm\_3) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ k5\_arytm\_3) \Rightarrow (\neg(X1 \in X0) \wedge ((X2 \in X0) \wedge ((X3 \in X0) \wedge ((X1 \neq X2) \wedge ((X2 \neq X3) \wedge (X3 \neq X1)))))))))))$$