l19_arytm_2 (TMWFv7pJgrUsrwppRziDYNmLXtPmPxgjKPw)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_arytm\_2 : \iota$ be given. Let $k3\_arytm\_2 : \iota \Rightarrow \iota$ be given. Let $k11\_arytm\_3 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k5\_arytm\_3 : \iota$ be given. Let $r3\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_arytm\_2 : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_arytm\_3) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k5\_arytm\_3) \Rightarrow ((\neg r3\_arytm\_3\ X1\ X0) \Leftrightarrow ((r3\_arytm\_3\ X0\ X1) \wedge (X0 \neq X1)))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_arytm\_3) \Rightarrow (r3\_arytm\_3\ k11\_arytm\_3\ X0) \tag{3}$$

Assume the following.

$$k11\_arytm\_3 = k1\_xboole\_0 \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k2\_arytm\_2) \Rightarrow (m2\_subset\_1\ (k3\_arytm\_2\ X0)\ (k1\_zfmisc\_1\ k5\_arytm\_3)\ k1\_arytm\_2) \tag{5}$$

Assume the following.

$$m1\_subset\_1\ k11\_arytm\_3\ k5\_arytm\_3 \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k2\_arytm\_2) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ (k1\_zfmisc\_1\ k5\_arytm\_3)\ k1\_arytm\_2) \Rightarrow (((X0 \in k5\_arytm\_3) \Rightarrow ((X1 = k3\_arytm\_2\ X0) \Leftrightarrow (\exists X2.(m1\_subset\_1\ X2\ k5\_arytm\_3) \wedge ((X0 = X2) \wedge (X1 = ReplSep\ (toset\ (\lambda X3 : \iota.m1\_subset\_1\ X3\ k5\_arytm\_3))\ (\lambda X3 : \iota.\neg r3\_arytm\_3\ X2\ X3)\ (\lambda X3 : \iota.X3)))))) \wedge ((\neg X0 \in k5\_arytm\_3) \Rightarrow ((X1 = k3\_arytm\_2\ X0) \Leftrightarrow (X1 = X0))))) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Leftrightarrow (\forall X1.\neg X1 \in X0) \tag{8}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k2\_arytm\_2) \Rightarrow ((k3\_arytm\_2\ X0 = k11\_arytm\_3) \Leftrightarrow (X0 = k11\_arytm\_3))$$