t9_arytm_3 (TMWrodnHtZUyZyjtnvsrPufoRhbdtQZUCd9)

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Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r2\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k11\_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3\_ordinal1\ X0) \Rightarrow ((k11\_ordinal2\ np\_\_1\ X0 = X0) \wedge (k11\_ordinal2\ X0\ np\_\_1 = X0)) \tag{1}$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0) \Rightarrow (k11\_ordinal2\ X0\ k1\_xboole\_0 = k1\_xboole\_0) \tag{2}$$

Assume the following.

$$np\_\_1 = k1\_ordinal1\ k1\_xboole\_0 \tag{3}$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0) \Rightarrow ((\neg v1\_xboole\_0\ (k1\_ordinal1\ X0)) \wedge (v3\_ordinal1\ (k1\_ordinal1\ X0))) \tag{4}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{5}$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0) \Rightarrow (\forall X1.(v3\_ordinal1\ X1) \Rightarrow ((r2\_arytm\_3\ X0\ X1) \Leftrightarrow (\exists X2.(v3\_ordinal1\ X2) \wedge (X1 = k11\_ordinal2\ X0\ X2)))) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (v3\_ordinal1\ X0) \tag{7}$$

Theorem 1

$$\forall X0.((v3\_ordinal1\ X0) \wedge (v7\_ordinal1\ X0)) \Rightarrow ((r2\_arytm\_3\ X0\ k1\_xboole\_0) \wedge (r2\_arytm\_3\ np\_\_1\ X0))$$