

## l47\_lattice8

(TMUrm7sgyFw9YGk1AiTiWk891R8N67YaVzQ)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k2\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\neg(r1\_xxreal\_0\ X0\ np\_4) \wedge ((X0 \neq k6\_numbers) \wedge ((X0 \neq np\_1) \wedge ((X0 \neq np\_2) \wedge ((X0 \neq np\_3) \wedge (X0 \neq np\_4)))))) \quad (1)$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow ((X0 \in k2\_finseq\_1\ X1) \Leftrightarrow ((r1\_xxreal\_0\ np\_1\ X0) \wedge (r1\_xxreal\_0\ X0\ X1)))) \quad (2)$$

Assume the following.

$$((v2\_xxreal\_0\ np\_4) \wedge (m2\_subset\_1\ np\_4\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_4\ k5\_numbers) \wedge (m1\_subset\_1\ np\_4\ k1\_numbers)) \quad (3)$$

Assume the following.

$$((v2\_xxreal\_0\ np\_1) \wedge (m2\_subset\_1\ np\_1\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_1\ k1\_numbers)) \quad (4)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (5)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (6)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow ((v2\_xxreal\_0\ X0) \Leftrightarrow (\neg r1\_xxreal\_0\ X0\ k6\_numbers)) \quad (7)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \quad (8)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (v1\_xreal\_0 X0) \quad (9)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\neg(X0 \in k2\_finseq\_1 np\_4) \wedge ((X0 \neq np\_1) \wedge ((X0 \neq np\_2) \wedge ((X0 \neq np\_3) \wedge (X0 \neq np\_4))))))$$