

t14\_lfuzzy\_0 (TMGxXQEpmcEUeDW-  
pMv3oeKGCrTyXGS4XQeE)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_lfuzzy\_0 : \iota \Rightarrow \iota$  be given. Let  $k9\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_yellow\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  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  $k5\_numbers : \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $k1\_lfuzzy\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_lfuzzy\_0 : \iota \Rightarrow o$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (l1\_orders\_2 X1) \Rightarrow (k1\_funct\_2 X0 (u1\_struct\_0 X1) = u1\_struct\_0 (k6\_yellow\_1 X0 X1)) \quad (1)$$

Assume the following.

$$m1\_subset\_1 k1\_xboole\_0 k4\_ordinal1 \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (k9\_funct\_2 X0 X1 = k1\_funct\_2 X0 X1) \quad (4)$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0)\wedge(v1\_xreal\_0 X1))\Rightarrow(k1\_rcomp\_1 X0 X1 = k1\_xxreal\_1 X0 X1) \quad (7)$$

Assume the following.

$$\neg v1\_xboole\_0 (k1\_xxreal\_1 k6\_numbers np\_1) \quad (8)$$

Assume the following.

$$m1\_subset\_1 k5\_numbers (k1\_zfmisc\_1 k1\_numbers) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0)\wedge(v1\_xreal\_0 X1))\Rightarrow(m1\_subset\_1 (k1\_rcomp\_1 X0 X1) (k1\_zfmisc\_1 k1\_numbers)) \quad (10)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers))\Rightarrow((v1\_orders\_2 (k1\_lfuzzy\_0 X0))\wedge((v1\_lfuzzy\_0 (k1\_lfuzzy\_0 X0))\wedge(l1\_orders\_2 (k1\_lfuzzy\_0 X0)))) \quad (11)$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0 X0)\Rightarrow(k4\_lfuzzy\_0 X0 = k6\_yellow\_1 X0 (k1\_lfuzzy\_0 (k1\_rcomp\_1 k6\_numbers np\_1))) \quad (12)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers))\Rightarrow(\forall X1. ((v1\_orders\_2 X1)\wedge((v1\_lfuzzy\_0 X1)\wedge(l1\_orders\_2 X1)))\Rightarrow((X1 = k1\_lfuzzy\_0 X0)\Leftrightarrow(u1\_struct\_0 X1 = X0))) \quad (13)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers))\Rightarrow(v3\_membered X0) \quad (14)$$

Assume the following.

$$\forall X0.(v3\_membered X0)\Rightarrow(\forall X1.(m1\_subset\_1 X1 X0)\Rightarrow(v1\_xreal\_0 X1)) \quad (15)$$

### Theorem 1

$$\forall X0.(\neg v1\_xboole\_0 X0)\Rightarrow(u1\_struct\_0 (k4\_lfuzzy\_0 X0) = k9\_funct\_2 X0 (k1\_rcomp\_1 k6\_numbers np\_1))$$