

t76\_xxreal\_3 (TM-  
MAVS4XJAr9JXfGGiA1gZiqYDjLdRE8zR4)

October 27, 2020

Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k6\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_0 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k5\_xxreal\_3 : \iota \Rightarrow \iota$  be given. Let  $k4\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (2)$$

Assume the following.

$$(v1\_xboole\_0 (k5\_xxreal\_3 k1\_xxreal\_0)) \wedge (v1\_xxreal\_0 (k5\_xxreal\_3 k1\_xxreal\_0)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_xboole\_0 X0) \wedge (v1\_xxreal\_0 X0)) \wedge (v1\_xxreal\_0 X1)) \Rightarrow ((v1\_xboole\_0 (k4\_xxreal\_3 X0 X1)) \wedge (v1\_xxreal\_0 (k4\_xxreal\_3 X0 X1))) \quad (4)$$

Assume the following.

$$v1\_xxreal\_0 k1\_xxreal\_0 \quad (5)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (k6\_xxreal\_3 X0 X1 = k4\_xxreal\_3 X0 (k5\_xxreal\_3 X1))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0) \wedge (v1\_xxreal\_0 X1)) \Rightarrow (k4\_xxreal\_3 X0 X1 = k4\_xxreal\_3 X1 X0) \quad (7)$$

**Theorem 1**  $\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (k6\_xxreal\_3 X0 k1\_xxreal\_0 = k6\_numbers)$ .