

t46\_xxreal\_2  
(TMS3sPgtgg5Rxu7gYFftYBCtahEdYQMRpLE)

October 27, 2020

Let  $v3\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v4\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $m2\_xxreal\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $m1\_xxreal\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\neg \forall X1.(v1\_xreal\_0 X1) \Rightarrow (r1\_xxreal\_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\neg \forall X1.(v1\_xreal\_0 X1) \Rightarrow (r1\_xxreal\_0 X1 X0)) \quad (2)$$

Assume the following.

$$v3\_membered \ k1\_numbers \quad (3)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(m2\_xxreal\_2 X1 X0) \Rightarrow (v1\_xxreal\_0 X1)) \quad (4)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(m1\_xxreal\_2 X1 X0) \Rightarrow (v1\_xxreal\_0 X1)) \quad (5)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow ((v3\_xxreal\_2 X0) \Leftrightarrow (\exists X1.(v1\_xreal\_0 X1) \wedge (m2\_xxreal\_2 X1 X0))) \quad (6)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow ((m2\_xxreal\_2 X1 X0) \Leftrightarrow (\forall X2.(v1\_xxreal\_0 X2) \Rightarrow ((X2 \in X0) \Rightarrow (r1\_xxreal\_0 X1 X2))))) \quad (7)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(\forall X1.(v1\_xxreal\_0\ X1)\Rightarrow((m1\_xxreal\_2\ X1\ X0)\Leftrightarrow(\forall X2.(v1\_xxreal\_0\ X2)\Rightarrow((X2 \in X0)\Rightarrow(r1\_xxreal\_0\ X2\ X1)))))) \quad (8)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Leftrightarrow(X0 \in k1\_numbers) \quad (9)$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow((v4\_xxreal\_2\ X0)\Leftrightarrow(\exists X1.(v1\_xreal\_0\ X1)\wedge(m1\_xxreal\_2\ X1\ X0))) \quad (10)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \quad (11)$$

Assume the following.

$$\forall X0.(v3\_membered\ X0)\Rightarrow(v2\_membered\ X0) \quad (12)$$

**Theorem 1**  $(\neg v3\_xxreal\_2\ k1\_numbers)\wedge(\neg v4\_xxreal\_2\ k1\_numbers).$