

t267\_xxreal\_1

(TMZGmWzEzc82pfg1ChT8PdPvKGGKhhdj2ZGK)

October 27, 2020

Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xxreal\_0 : \iota$  be given. Let  $k1\_numbers : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xxreal\_0 X2) \Rightarrow (\forall X3.(v1\_xxreal\_0 X3) \Rightarrow (\neg(\neg r1\_xxreal\_0 \\ & X1 X0) \wedge (\neg r1\_xxreal\_0 X3 X2) \wedge (\neg r1\_tarski (k1\_xxreal\_1 X1 X2) ( \\ & k4\_xxreal\_1 X0 X3))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\neg(X0 \in k1\_numbers) \wedge (r1\_xxreal\_0 X0 k2\_xxreal\_0)) \quad (2)$$

Assume the following.

$$v1\_xxreal\_0 k2\_xxreal\_0 \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Leftrightarrow (X0 \in k1\_numbers) \quad (4)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (v1\_xxreal\_0 X0) \quad (5)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xreal\_0 X2) \Rightarrow ((\neg r1\_xxreal\_0 X1 X0) \Rightarrow (r1\_tarski (k1\_xxreal\_1 \\ & X2 X0) (k4\_xxreal\_1 k2\_xxreal\_0 X1)))))) \end{aligned}$$