

t90_xxreal_3

(TMK1S3pxaXPzeM8yBSTPWE6YB8aPBuXhVHR)

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Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k4_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\neg \\ (k4_xxreal_3 X0 X1 \in k1_numbers) \wedge ((\neg(X0 \in k1_numbers) \wedge (X1 \in k1_numbers)) \wedge \\ (k4_xxreal_3 X0 X1 \neq k6_numbers)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((\\ k4_xxreal_3 X0 X1 = k6_numbers) \Rightarrow ((v1_xxreal_0 X0) \vee (X1 = k6_numbers)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xxreal_0 X0) \Rightarrow (\neg(\neg X0 \in k1_numbers) \wedge ((X0 \neq k1_xxreal_0) \wedge \\ (X0 \neq k2_xxreal_0))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (\\ v1_xxreal_0 (k4_xxreal_3 X0 X1)) \end{aligned} \tag{4}$$

Assume the following.

$$k1_xxreal_0 = k1_numbers \tag{5}$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Leftrightarrow (X0 \in k1_numbers) \tag{6}$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\neg \\ (k4_xxreal_3 X0 X1 \neq k1_xxreal_0) \wedge ((k4_xxreal_3 X0 X1 \neq k2_xxreal_0) \wedge \\ ((\neg X0 \in k1_numbers) \wedge (\neg X1 \in k1_numbers)))))) \end{aligned}$$