

t113_xxreal_1

(TMam9nP9CL4RaikeZW3hQenCLppfkHjyBAD)

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Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xxreal_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xxreal_0 X2) \Rightarrow (\forall X3.(v1_xxreal_0 X3) \Rightarrow ((r1_tarski (\\ & k4_xxreal_1 X0 X1) (k1_xxreal_1 X2 X3)) \Rightarrow ((r1_xxreal_0 X1 X0) \vee (\\ & (r1_xxreal_0 X2 X0) \wedge (r1_xxreal_0 X1 X3))))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xxreal_0 X2) \Rightarrow (\forall X3.(v1_xxreal_0 X3) \Rightarrow (\neg(\neg(r1_xxreal_0 \\ & X1 X0) \wedge (\neg(r1_xxreal_0 X1 X2) \wedge (r1_tarski (k4_xxreal_1 X2 X1) (k1_xxreal_1 \\ & X3 X0))))))) \end{aligned}$$