

t31_real.3

(TMQfdE2m89JFd6MWgmW2GWYpGrZNPiASUei)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k3_real_3 : \iota \Rightarrow \iota$ be given. Let $k10_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_real_3 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((\neg r1_xxreal_0 \\ & X1 np_1) \Rightarrow ((k3_funct_2 k5_numbers k1_numbers (k3_real_3 (k10_real_1 \\ & np_1 X1)) np_1 = X1) \wedge ((k3_funct_2 k5_numbers k1_numbers (k3_real_3 \\ & (k10_real_1 np_1 X1)) (k1_nat_1 X0 np_2) = k6_numbers) \wedge ((k3_funct_2 \\ & k5_numbers k1_numbers (k4_real_3 (k10_real_1 np_1 X1)) k6_numbers = \\ & k6_numbers) \wedge ((k3_funct_2 k5_numbers k1_numbers (k4_real_3 (\\ & k10_real_1 np_1 X1)) np_1 = X1) \wedge (k3_funct_2 k5_numbers k1_numbers \\ & (k4_real_3 (k10_real_1 np_1 X1)) (k1_nat_1 X0 np_2) = k6_numbers)))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((\neg r1_xxreal_0 \\ & X1 np_1) \Rightarrow ((k3_funct_2 k5_numbers k1_numbers (k3_real_3 (k10_real_1 \\ & np_1 X1)) np_1 = X1) \wedge (k3_funct_2 k5_numbers k1_numbers (k3_real_3 \\ & (k10_real_1 np_1 X1)) (k1_nat_1 X0 np_2) = k6_numbers)))) \end{aligned}$$