

t28_binari_4

(TMa276RWh3C18JediXE9HKTPq5Kw6Bxerj5)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k6_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_series_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k2_binari_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (\forall X1. \\ & (v1_int_1 X1) \Rightarrow (\forall X2.(v1_int_1 X2) \Rightarrow ((k6_int_1 X1 (k5_series_1 \\ & np_2 X0) = k6_int_1 X2 (k5_series_1 np_2 X0)) \Rightarrow ((r1_xxreal_0 k6_numbers \\ & X1) \vee ((r1_xxreal_0 k6_numbers X2) \vee (k2_binari_4 X0 X1 = k2_binari_4 \\ & X0 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (\forall X1. \\ & (v1_int_1 X1) \Rightarrow (\forall X2.(v1_int_1 X2) \Rightarrow (((r1_xxreal_0 k6_numbers \\ & X1) \wedge ((r1_xxreal_0 k6_numbers X2) \wedge (k6_int_1 X1 (k5_series_1 np_2 \\ & X0) = k6_int_1 X2 (k5_series_1 np_2 X0)))) \Rightarrow (k2_binari_4 X0 X1 = \\ & k2_binari_4 X0 X2)))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (\forall X1. \\ & (v1_int_1 X1) \Rightarrow (\forall X2.(v1_int_1 X2) \Rightarrow ((k6_int_1 X1 (k5_series_1 \\ & np_2 X0) = k6_int_1 X2 (k5_series_1 np_2 X0)) \Rightarrow (((\neg (r1_xxreal_0 \\ & k6_numbers X1) \wedge (r1_xxreal_0 k6_numbers X2)) \wedge (\neg (\neg r1_xxreal_0 \\ & k6_numbers X1) \wedge (\neg r1_xxreal_0 k6_numbers X2))) \vee (k2_binari_4 \\ & X0 X1 = k2_binari_4 X0 X2)))))) \end{aligned}$$