

t9_ntalgo_1

(TMY8M8TxWaws4HR2esrAgDQWgPX3K2Pax7F)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k3_int_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_int_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k4_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k4_numbers) \Rightarrow ((X1 \neq k6_numbers) \Rightarrow (r2_int_1 (k6_int_1 X0 X1) X0 \\ X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ (v1_int_1 X2) \Rightarrow ((r2_int_1 X0 X1 X2) \Rightarrow (k3_int_2 X0 X2 = k3_int_2 X1 \\ X2)))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0) \wedge (v1_int_1 X1)) \Rightarrow (v1_int_1 \\ (k6_int_1 X0 X1)) \tag{3}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_numbers) \Rightarrow (v1_int_1 X0) \tag{4}$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k4_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k4_numbers) \Rightarrow ((X1 \neq k6_numbers) \Rightarrow (k3_int_2 (k6_int_1 X0 X1) X1 = \\ k3_int_2 X0 X1))) \end{aligned}$$