

t10_ntalgo_1
(TMXYGTa7WZVDXnEd6YpzQ3af8G61SU3JWYN)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_numbers : \iota$ be given. Let $k6_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_int_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k3_int_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k4_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k4_numbers) \Rightarrow ((X1 \neq k6_numbers) \Rightarrow (k3_int_2 (k6_int_1 X0 X1) X1 = \\ k3_int_2 X0 X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((r1_int_2 \\ X0 X1) \Leftrightarrow (k3_int_2 X0 X1 = np_1))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_numbers) \Rightarrow (v1_int_1 X0) \tag{3}$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k4_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k4_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k4_numbers) \Rightarrow (((X0 = \\ k6_int_1 X1 X2) \wedge (r1_int_2 X1 X2)) \Rightarrow ((X2 = k6_numbers) \vee (r1_int_2 \\ X0 X2)))))) \end{aligned}$$