

t7_ntalgo_1
(TMQSnCyjtDsaJSDjj4UmKszC4DyoT7AShXf)

October 27, 2020

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 $k3_mcart_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_ntalgo_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_ntalgo_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$k6_numbers = k1_xboole_0 \tag{1}$$

Assume the following.

$$m1_subset_1 \ k6_numbers \ k4_numbers \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 \ X0 \ k4_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 \ k4_numbers) \Rightarrow (\forall X2.(m1_subset_1 \ X2 \ k4_numbers) \Rightarrow (((X1 = \\ k6_int_1 \ X0 \ X2) \wedge (k3_mcart_1 \ k4_numbers \ k4_numbers \ k4_numbers \\ (k2_ntalgo_1 \ X2 \ X1) = np_1)) \Rightarrow ((X2 = k6_numbers) \vee (k6_int_1 \ (k3_xcmplx_0 \\ (k3_ntalgo_1 \ X0 \ X2) \ X0) \ X2 = k6_int_1 \ np_1 \ X2)))))) \end{aligned} \tag{3}$$

Assume the following.

$$(m1_subset_1 \ np_1 \ k4_numbers) \wedge (m1_subset_1 \ k6_numbers \ k4_numbers) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 \ X0) \wedge (v1_int_1 \ X1)) \Rightarrow (v1_int_1 \\ (k3_xcmplx_0 \ X0 \ X1)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 \ X0 \ k4_numbers) \wedge (m1_subset_1 \\ X1 \ k4_numbers)) \Rightarrow (m1_subset_1 \ (k3_ntalgo_1 \ X0 \ X1) \ k4_numbers) \tag{6}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (((X1 \neq k6_numbers) \Rightarrow \\ (k6_int_1 X0 X1 = k6_xcmplx_0 X0 (k3_xcmplx_0 (k5_int_1 X0 X1) X1))) \wedge \\ ((X1 = k6_numbers) \Rightarrow (k6_int_1 X0 X1 = k6_numbers)))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_numbers) \Rightarrow (v1_int_1 X0) \quad (8)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k4_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k4_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k4_numbers) \Rightarrow (((X2 = \\ k6_int_1 X0 X1) \wedge (k3_mcart_1 k4_numbers k4_numbers k4_numbers \\ (k2_ntalgo_1 X1 X2) = np_1)) \Rightarrow (k6_int_1 (k3_xcmplx_0 (k3_ntalgo_1 \\ X0 X1) X0) X1 = k6_int_1 np_1 X1)))) \end{aligned}$$