

l34_ntalgo_1

(TMJ3F9zZNBdxdgS3W35TmK1u6oqWSyVUZy)

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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 $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $r2_int_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v1_int_1 X2) \Rightarrow (((k6_int_1 X1 X0 = k6_int_1 X2 X0) \Rightarrow ((X0 = k6_numbers) \vee \\ & (r2_int_1 X1 X2 X0))) \wedge ((r2_int_1 X1 X2 X0) \Rightarrow (k6_int_1 X1 X0 = k6_int_1 \\ & X2 X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_xcmplx_0 X0 \ k6_numbers = k6_numbers) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v1_int_1 X2) \Rightarrow (\forall X3.(v1_int_1 X3) \Rightarrow (((r1_int_2 X2 X3) \wedge \\ & (r2_int_1 X0 X1 X2) \wedge (r2_int_1 X0 X1 X3))) \Rightarrow (r2_int_1 X0 X1 (k3_xcmplx_0 \\ & X2 X3)))))) \end{aligned} \quad (4)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0) \wedge (v1_int_1 X1)) \Rightarrow (v1_int_1 (k3_xcmplx_0 X0 X1)) \quad (6)$$

Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \tag{7}$$

Assume the following.

$$k1_xboole_0 = the \ (\lambda X0 : \iota.v1_xboole_0 \ X0) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 \ X0)\wedge(v1_xcmplx_0 \ X1))\Rightarrow(\tag{9}$$

$$k3_xcmplx_0 \ X0 \ X1 = k3_xcmplx_0 \ X1 \ X0)$$

Assume the following.

$$\forall X0.(v1_xreal_0 \ X0)\Rightarrow(v1_xcmplx_0 \ X0) \tag{10}$$

Assume the following.

$$\forall X0.(v1_int_1 \ X0)\Rightarrow(v1_xreal_0 \ X0) \tag{11}$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_numbers)\Rightarrow(v1_int_1 \ X0) \tag{12}$$

Theorem 1

$$\forall X0.(m1_subset_1 \ X0 \ k4_numbers)\Rightarrow(\forall X1.(m1_subset_1$$

$$X1 \ k4_numbers)\Rightarrow(\forall X2.(m1_subset_1 \ X2 \ k4_numbers)\Rightarrow(\forall X3.$$

$$(m1_subset_1 \ X3 \ k4_numbers)\Rightarrow(((k6_int_1 \ X0 \ X2 = k6_int_1 \ X1 \ X2)\wedge$$

$$((k6_int_1 \ X0 \ X3 = k6_int_1 \ X1 \ X3)\wedge(r1_int_2 \ X2 \ X3))))\Rightarrow(k6_int_1$$

$$X0 \ (k3_xcmplx_0 \ X2 \ X3) = k6_int_1 \ X1 \ (k3_xcmplx_0 \ X2 \ X3))))))$$