

t1_int_3

(TMaZm7nQtv3HyyHN6qADhrHnFDZ8R1kcvPW)

October 27, 2020

Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct.0 : \iota \Rightarrow \iota$ be given. Let $k1_int.3 : \iota$ be given. Let $k3_funct.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k3_int.3 : \iota$ be given. Let $k2_int.3 : \iota \Rightarrow \iota$ be given. Let $k16_complex1 : \iota \Rightarrow \iota$ be given. Let $v1_relat.1 : \iota \Rightarrow o$ be given. Let $v1_funct.1 : \iota \Rightarrow o$ be given. Let $v3_valued.0 : \iota \Rightarrow o$ be given. Let $k1_seq.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xcmplx.0 : \iota \Rightarrow o$ be given. Let $k18_complex1 : \iota \Rightarrow \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v5_membered : \iota \Rightarrow o$ be given. Let $v1_funct.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_euclid : \iota$ be given. Let $v1_xreal.0 : \iota \Rightarrow o$ be given. Let $v1_int.1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m1_subset.1 X0 (u1_struct.0 k1_int.3)) \Rightarrow (k2_int.3 X0 = k16_complex1 X0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat.1 X0) \wedge ((v1_funct.1 X0) \wedge (v3_valued.0 X0))) \Rightarrow (k1_seq.1 X0 X1 = k1_funct.1 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcmplx.0 X0) \Rightarrow (k18_complex1 X0 = k16_complex1 X0) \quad (3)$$

Assume the following.

$$v3_membered k1_numbers \quad (4)$$

Assume the following.

$$v5_membered (u1_struct.0 k1_int.3) \quad (5)$$

Assume the following.

$$(v1_funct.1 k3_int.3) \wedge ((v1_funct.2 k3_int.3 (u1_struct.0 k1_int.3) k5_numbers) \wedge (m1_subset.1 k3_int.3 (k1_zfmisc.1 (k2_zfmisc.1 (u1_struct.0 k1_int.3) k5_numbers)))))) \quad (6)$$

Assume the following.

$$(v1_funct_1\ k2_euclid)\wedge((v1_funct_2\ k2_euclid\ k1_numbers\ k1_numbers)\wedge(m1_subset_1\ k2_euclid\ (k1_zfmisc_1\ (k2_zfmisc_1\ k1_numbers\ k1_numbers)))) \quad (7)$$

Assume the following.

$$\forall X0.((v1_funct_1\ X0)\wedge((v1_funct_2\ X0\ (u1_struct_0\ k1_int_3\ k5_numbers)\wedge(m1_subset_1\ X0\ (k1_zfmisc_1\ (k2_zfmisc_1\ (u1_struct_0\ k1_int_3\ k5_numbers))))))\Rightarrow((X0 = k3_int_3)\Leftrightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ k1_int_3))\Rightarrow(k3_funct_2\ (u1_struct_0\ k1_int_3\ k5_numbers\ X0\ X1 = k1_funct_1\ k2_euclid\ X1)))) \quad (8)$$

Assume the following.

$$\forall X0.((v1_funct_1\ X0)\wedge((v1_funct_2\ X0\ k1_numbers\ k1_numbers)\wedge(m1_subset_1\ X0\ (k1_zfmisc_1\ (k2_zfmisc_1\ k1_numbers\ k1_numbers))))\Rightarrow((X0 = k2_euclid)\Leftrightarrow(\forall X1.(v1_xreal_0\ X1)\Rightarrow(k1_seq_1\ X0\ X1 = k18_complex1\ X1))) \quad (9)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0)\Rightarrow(v1_xcmplx_0\ X0) \quad (10)$$

Assume the following.

$$\forall X0.(v1_int_1\ X0)\Rightarrow(v1_xreal_0\ X0) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1)))\Rightarrow(v1_relat_1\ X2) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.(v3_membered\ X1)\Rightarrow(\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1)))\Rightarrow(v3_valued_0\ X2)) \quad (13)$$

Assume the following.

$$\forall X0.(v5_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v1_int_1\ X1)) \quad (14)$$

Theorem 1

$$\forall X0.(m1_subset_1\ X0\ (u1_struct_0\ k1_int_3))\Rightarrow(k3_funct_2\ (u1_struct_0\ k1_int_3\ k5_numbers\ k3_int_3\ X0 = k2_int_3\ X0)$$