

t41_comseq_1 (TMSkHnEM- BgQ8YV7pu5hULDx3GjahX6xH4UY)

October 27, 2020

Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k2_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_relat_1 : \iota \Rightarrow o$ be given. Let $r2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k36_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k31_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k25_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_complex1 : \iota \Rightarrow \iota$ be given. Let $k6_complex1 : \iota$ be given. Let $k12_complex1 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k5_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xcmplx_0 : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_membered : \iota \Rightarrow o$ be given. Let $k30_valued_1 : \iota \Rightarrow \iota$ be given. Let $k24_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_valued_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.((v1_funct_1 \\ & X1) \wedge ((v1_funct_2 X1 k5_numbers k2_numbers) \wedge (m1_subset_1 X1 (\\ & k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k2_numbers)))))) \Rightarrow (r2_relset_1 \\ & k5_numbers k2_numbers (k36_valued_1 k5_numbers k2_numbers (k25_valued_1 \\ & k5_numbers k2_numbers X1 X0)) (k25_valued_1 k5_numbers k2_numbers \\ & (k36_valued_1 k5_numbers k2_numbers X1) (k12_complex1 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k7_xcmplx_0 np_1 X0 = k5_xcmplx_0 X0) \quad (2)$$

Assume the following.

$$k3_xcmplx_0 k1_xcmplx_0 k1_xcmplx_0 = k4_xcmplx_0 np_1 \quad (3)$$

Assume the following.

$$k7_xcmplx_0 np_1 (k4_xcmplx_0 np_1) = k4_xcmplx_0 np_1 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_membered\ X1)\wedge((v1_funct_1\ X2)\wedge(m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1)))))\Rightarrow(k31_valued_1\ X0\ X1\ X2 = k30_valued_1\ X2) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v1_membered\ X1)\wedge(((v1_funct_1\ X2)\wedge(m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1))))\wedge(v1_xcmplx_0\ X3)))\Rightarrow(k25_valued_1\ X0\ X1\ X2\ X3 = k24_valued_1\ X2\ X3) \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k2_numbers)\Rightarrow(k12_complex1\ X0 = k5_xcmplx_0\ X0) \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k2_numbers)\Rightarrow(k10_complex1\ X0 = k4_xcmplx_0\ X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0\ X0)\wedge(v1_xcmplx_0\ X1))\Rightarrow(v1_xcmplx_0\ (k3_xcmplx_0\ X0\ X1)) \quad (9)$$

Assume the following.

$$v1_xcmplx_0\ k1_xcmplx_0 \quad (10)$$

Assume the following.

$$v1_membered\ k2_numbers \quad (11)$$

Assume the following.

$$m1_subset_1\ k6_complex1\ k2_numbers \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k2_numbers)\Rightarrow(m1_subset_1\ (k10_complex1\ X0)\ k2_numbers) \quad (13)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0)\wedge((v1_funct_1\ X0)\wedge(v1_valued_0\ X0)))\Rightarrow(k30_valued_1\ X0 = k24_valued_1\ X0\ (k4_xcmplx_0\ np_1)) \quad (14)$$

Assume the following.

$$k6_complex1 = np_1 \quad (15)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.(v1_membered X1)\Rightarrow(\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_valued_0 X2)) \quad (17)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_funct_1 X0)\wedge((v1_funct_2 X0 k5_numbers k2_numbers)\wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k2_numbers))))))\Rightarrow \\ & ((v2_relat_1 X0)\Rightarrow(r2_relset_1 k5_numbers k2_numbers (k36_valued_1 \\ & k5_numbers k2_numbers (k31_valued_1 k5_numbers k2_numbers X0)) \\ & (k25_valued_1 k5_numbers k2_numbers (k36_valued_1 k5_numbers \\ & k2_numbers X0) (k10_complex1 k6_complex1)))) \end{aligned}$$