

t99_flang_2

(TMVK6Ryoo6eiXhMiyrrjACMnForr8DFMmVaQ)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k8_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_xxreal_0 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $np_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg(\neg r1_xxreal_0 X0 X1) \wedge ((\neg v3_xxreal_0 X1) \wedge (\neg v2_xxreal_0 X0)))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (k2_flang_2 X0 X1 = k4_subset_1 (k8_afinsq_1 X0) (k4_flang_1 X0 (k2_flang_1 X0)) X1) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (k1_flang_2 X0 X1 k6_numbers k6_numbers = k4_flang_1 X0 (k2_flang_1 X0)) \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & \quad X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 \\ & \quad X3) \Rightarrow (\forall X4. (v7_ordinal1 X4) \Rightarrow (((r1_xxreal_0 X2 X3) \wedge (r1_xxreal_0 \\ & \quad X3 X4)) \Rightarrow (k1_flang_2 X0 X1 X2 X4 = k4_subset_1 (k8_afinsq_1 X0) (k1_flang_2 \\ & \quad X0 X1 X2 X3) (k1_flang_2 X0 X1 (k2_xcmplx_0 X3 np_1) X4)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & (m2_subset_1 np_0 k1_numbers k5_numbers) \wedge ((m1_subset_1 np_0 \\ & \quad k5_numbers) \wedge (m1_subset_1 np_0 k1_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (8)$$

Assume the following.

$$k2_xcmplx_0 np_0 np_1 = np_1 \quad (9)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (10)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((m1_subset_1 X1 \\ & \quad (k1_zfmisc_1 (k8_afinsq_1 X0))) \wedge ((v7_ordinal1 X2) \wedge (v7_ordinal1 \\ & \quad X3))) \Rightarrow (m1_subset_1 (k1_flang_2 X0 X1 X2 X3) (k1_zfmisc_1 (k8_afinsq_1 \\ & \quad X0))) \end{aligned} \quad (12)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (13)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_xxreal_0 X0) \wedge (v2_xxreal_0 X0)) \Rightarrow ((\neg v1_xboole_0 \\ & \quad X0) \wedge ((v1_xxreal_0 X0) \wedge (\neg v3_xxreal_0 X0))) \end{aligned} \quad (14)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow ((v7_ordinal1 X0) \wedge (\neg v3_xxreal_0 X0)) \quad (15)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_xreal_0\ X0) \quad (16)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_xreal_0\ X0) \quad (17)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (k8_afinsq_1\ X0)))\Rightarrow(\forall X2.(v7_ordinal1\ X2)\Rightarrow(k2_flang_2\ X0\ (k1_flang_2\ X0\ X1\ np_1\ X2) = k1_flang_2\ X0\ X1\ k6_numbers\ X2))$$