

t93_flang_2 (TMYmjahBmhML- cLQ72EecNYv5xydhtNKL4mW)

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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 $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ 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. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (k2_flang_2 X0 X1 = k1_flang_2 X0 X1 k6_numbers np_1) \quad (1)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow (\forall X4. (v7_ordinal1 X4) \Rightarrow (\forall X5. (v7_ordinal1 X5) \Rightarrow \\ & (((r1_xxreal_0 X2 X3) \wedge (r1_xxreal_0 X4 X5)) \Rightarrow (k6_flang_1 X0 (k1_flang_2 X0 X1 X2 X3) (k1_flang_2 X0 X1 X4 X5) = k1_flang_2 X0 X1 (k2_xcmplx_0 X2 X4) (k2_xcmplx_0 X3 X5))))))) \end{aligned} \quad (3)$$

Assume the following.

$$((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \quad (4)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (5)$$

Assume the following.

$$k2_xcmplx_0 np_1 np_1 = np_2 \quad (6)$$

Assume the following.

$$k2_xcmplx_0 \text{ } np_0 \text{ } np_0 = np_0 \quad (7)$$

Assume the following.

$$r1_xxreal_0 \text{ } np_0 \text{ } np_1 \quad (8)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (9)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 \text{ } X0 \text{ } k4_ordinal1) \Rightarrow (v7_ordinal1 \text{ } X0) \quad (11)$$

Assume the following.

$$\forall X0.(v1_xboole_0 \text{ } X0) \Rightarrow (v7_ordinal1 \text{ } X0) \quad (12)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 \text{ } X1 \text{ } (k1_zfmisc_1 \text{ } (k8_afinsq_1 \text{ } X0))) \Rightarrow (k6_flang_1 \text{ } X0 \text{ } (k2_flang_2 \text{ } X0 \text{ } X1) \text{ } (k2_flang_2 \text{ } X0 \text{ } X1) = k1_flang_2 \text{ } X0 \text{ } X1 \text{ } k6_numbers \text{ } np_2)$$