

t84_flang_2
(TMQXD8RGhbV4YSUyKj5ep3RadzKZEhGkDdN)

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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 $k2_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ 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. Let $k4_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ 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.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow ((k1_flang_2 X0 X1 X2 X3 = k4_flang_1 X0 (k2_flang_1 X0)) \Leftrightarrow (\neg (\neg (r1_xxreal_0 X2 X3) \wedge (X1 = k4_flang_1 X0 (k2_flang_1 X0))) \wedge (\neg (X2 = k6_numbers) \wedge (X3 = k6_numbers)) \wedge (\neg (X2 = k6_numbers) \wedge (X1 = k1_xboole_0))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (5)$$

Assume the following.

$$r1_xreal_0 \ np_0 \ np_1 \tag{6}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{7}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{8}$$

Assume the following.

$$\forall X0. k2_flang_1 \ X0 = k4_afinsq_1 \ X0 \tag{9}$$

Assume the following.

$$\begin{aligned} & \forall X0. (v1_relat_1 \ (k4_afinsq_1 \ X0)) \wedge ((v5_relat_1 \ (k4_afinsq_1 \\ & X0) \ X0) \wedge ((v5_ordinal1 \ (k4_afinsq_1 \ X0)) \wedge ((v1_funct_1 \ (k4_afinsq_1 \\ & X0)) \wedge ((v1_xboole_0 \ (k4_afinsq_1 \ X0)) \wedge (v1_finset_1 \ (k4_afinsq_1 \\ & X0)))))) \end{aligned} \tag{10}$$

Assume the following.

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

Assume the following.

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

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (k8_afinsq_1 \\ & X0))) \Rightarrow ((k2_flang_2 \ X0 \ X1 = k4_flang_1 \ X0 \ (k2_flang_1 \ X0)) \Leftrightarrow ((X1 = \\ & k1_xboole_0) \vee (X1 = k4_flang_1 \ X0 \ (k2_flang_1 \ X0)))) \end{aligned}$$