

t34_flang_3

(TMJxQgzXRQwZdsi66a5PMuhtxhHuax9ipeP)

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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 $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_flang_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & \quad X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 \\ & \quad X3) \Rightarrow (\forall X4. (v7_ordinal1 X4) \Rightarrow ((r1_xxreal_0 X2 X3) \Rightarrow (k6_flang_1 \\ & \quad X0 (k1_flang_3 X0 X1 X4) (k1_flang_2 X0 X1 X2 X3) = k1_flang_3 X0 X1 \\ & \quad (k2_xcmplx_0 X4 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & \quad X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (k6_flang_1 X0 (k8_flang_1 \\ & \quad X0 X1) (k7_flang_1 X0 X1 X2) = k1_flang_3 X0 X1 X2)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & \quad X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 \\ & \quad X3) \Rightarrow (k1_flang_3 X0 X1 (k2_xcmplx_0 X2 X3) = k6_flang_1 X0 (k1_flang_3 \\ & \quad X0 X1 X2) (k7_flang_1 X0 X1 X3)))) \end{aligned} \tag{3}$$

Assume the following.

$$m1_subset_1 k1_xboole_0 k4_ordinal1 \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & \quad X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((k1_flang_3 X0 X1 X2 = k8_flang_1 \\ & \quad X0 X1) \Leftrightarrow ((k2_flang_1 X0 \in X1) \vee (X2 = k6_numbers)))) \end{aligned} \tag{5}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & \quad X0))) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow (\forall X3.(v7_ordinal1 \\ & X3) \Rightarrow ((r1_xxreal_0 X2 X3) \Rightarrow (k6_flang_1 X0 (k8_flang_1 X0 X1) (k1_flang_2 \\ & \quad X0 X1 X2 X3) = k1_flang_3 X0 X1 X2)))) \end{aligned}$$