

t3_goboard7 (TMYZN- jXQhD7MW8YiqCx39DNYnzZAmrdTLSS)

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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 $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct.0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $k3_rlvect.1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k5_algstr.0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_subset.1 X1 (u1_struct.0 \\ (k15_euclid X0))) \Rightarrow (\forall X2.(m1_subset.1 X2 (u1_struct.0 (\\ k15_euclid X0))) \Rightarrow ((X1 = k5_algstr.0 (k15_euclid X0) (k3_rlvect.1 \\ (k15_euclid X0) X1 X2) X2) \wedge (X1 = k3_rlvect.1 (k15_euclid X0) (k5_algstr.0 \\ (k15_euclid X0) X1 X2) X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((\neg v1_xboole.0 X0) \wedge ((\neg v1_xboole.0 X1) \wedge \\ (m1_subset.1 X1 (k1_zfmisc.1 X0)))) \Rightarrow (\forall X2.(m2_subset.1 \\ X2 X0 X1) \Leftrightarrow (m1_subset.1 X2 X1)) \end{aligned} \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$(\neg v1_xboole.0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (4)$$

Assume the following.

$$m1_subset.1 k5_numbers (k1_zfmisc.1 k1_numbers) \quad (5)$$

Assume the following.

$$\forall X0.(m1_subset.1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xboole.0 X0) \Rightarrow (\forall X1.(m1_subset.1 X1 (k1_zfmisc.1 \\ X0)) \Rightarrow (v1_xboole.0 X1)) \end{aligned} \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 (k15_euclid X0))) \Rightarrow (\forall X2.(\\ m1_subset_1 X2 (u1_struct_0 (k15_euclid X0))) \Rightarrow (\forall X3.(m1_subset_1 \\ & X3 (u1_struct_0 (k15_euclid X0))) \Rightarrow ((k3_rlvect_1 (k15_euclid \\ X0) X1 X2 = k3_rlvect_1 (k15_euclid X0) X3 X2) \Rightarrow (X1 = X3)))))) \end{aligned}$$