

t4_jgraph_2 (TMab-
Nx E9Ha ETy Zb KSLU pr KHSQDKRTn QV461)

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Let $k22_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k5_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k21_euclid : \iota \Rightarrow \iota$ be given. Let $k20_euclid : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. k2_finseq_2 \ np_2 \ X0 = k10_finseq_1 \ X0 \ X0 \quad (1)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((\neg v1_xboole_0 \ X0) \wedge ((v7_ordinal1 \\ & X1) \wedge (m1_subset_1 \ X2 \ X0))) \Rightarrow (k5_finseq_2 \ X0 \ X1 \ X2 = k2_finseq_2 \ X1 \\ & X2) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (k21_euclid \ X0 = k20_euclid \ X0) \quad (6)$$

Assume the following.

$$\neg v1_xboole_0 \ k1_numbers \quad (7)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow (k22_euclid \ X0 = k21_euclid \ X0) \quad (8)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow (k20_euclid \ X0 = k5_finseq_2 \ k1_numbers \ X0 \ np_1) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (10)$$

Theorem 1 $k22_euclid \ np_2 = k10_finseq_1 \ np_1 \ np_1$.