

t8_robbins4
(TMdTPf6dx5M4VvKwFTNpxG87v5zkv3cvdZP)

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Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k14_lattice3 : \iota \Rightarrow \iota$ be given. Let $k1_robbins4 : \iota$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_3 : \iota$ be given. Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ 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 $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$u1_struct_0 (k14_lattice3 k1_robbins4) = k4_enumset1 k6_numbers \quad (1)$$

$$np_1 (k6_subset_1 np_3 np_1) np_2 (k6_subset_1 np_3 np_2) \quad (1)$$

$$np_3$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarSKI X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((v2_xxreal_0 X0 X1) \Leftrightarrow (r1_ordinal1 X0 X1))) \quad (4)$$

Assume the following.

$$m1_subset_1 k1_xboole_0 k4_ordinal1 \quad (5)$$

Assume the following.

$$((v2_xxreal_0 np_3) \wedge (m2_subset_1 np_3 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_3 k5_numbers) \wedge (m1_subset_1 np_3 k1_numbers)) \quad (6)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (8)$$

Assume the following.

$$v1_xboole_0 \ np_0 \quad (9)$$

Assume the following.

$$r1_xxreal_0 \ np_2 \ np_3 \quad (10)$$

Assume the following.

$$r1_xxreal_0 \ np_1 \ np_3 \quad (11)$$

Assume the following.

$$r1_xxreal_0 \ np_0 \ np_3 \quad (12)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski \ X0 \ X0 \quad (13)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v3_ordinal1 \ X0) \wedge (v3_ordinal1 \ X1)) \Rightarrow (\\ & (r1_ordinal1 \ X0 \ X1) \Leftrightarrow (r1_tarski \ X0 \ X1)) \end{aligned} \quad (14)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (15)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (16)$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 \ (k6_subset_1 \ X0 \ X1) \ (k1_zfmisc_1 \ X0) \quad (17)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. (X6 = k4_enumset1 \ X0 \ X1 \ X2 \ X3 \ X4 \ X5) \Leftrightarrow (\forall X7. (X7 \in X6) \Leftrightarrow \\ & (\neg (X7 \neq X0) \wedge ((X7 \neq X1) \wedge ((X7 \neq X2) \wedge ((X7 \neq X3) \wedge ((X7 \neq X4) \wedge (X7 \neq X5))))))) \end{aligned} \quad (18)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (19)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (v3_ordinal1 \ X0) \quad (20)$$

Theorem 1

$$\forall X0.(X0 \in u1_struct_0 (k14_lattice3 k1_robbins4)) \Rightarrow (r1_tarSKI$$
$$X0 np_3)$$