

t37_mycielsk
(TMLCcxa8tr4xy8AyNFEZsJoDS3qheCmZpPp)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_mycielsk : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k6_mycielsk : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $np_2 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_xcmplx_0 np_1 X0 = X0) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \Leftrightarrow (r1_ordinal1 X0 X1))) \quad (2)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow ((r1_xxreal_0 X0 X1) \Rightarrow (r1_xxreal_0 X0 (k2_xcmplx_0 X1 X2)))))) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_xcmplx_0 X0) \wedge ((v1_xcmplx_0 X1) \wedge (v1_xcmplx_0 X2))) \Rightarrow (k3_xcmplx_0 (k2_xcmplx_0 X0 X1) X2 = k2_xcmplx_0 (k3_xcmplx_0 X0 X2) (k3_xcmplx_0 X1 X2)) \quad (4)$$

Assume the following.

$$((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \quad (5)$$

Assume the following.

$$k2_xcmplx_0 \ np_{-1} \ np_{-1} = np_{-2} \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xxreal_0 \ X0) \wedge (v1_xxreal_0 \ X1)) \Rightarrow (r1_xxreal_0 \ X0 \ X0) \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. ((v3_ordinal1 \ X0) \wedge (v3_ordinal1 \ X1)) \Rightarrow (r1_ordinal1 \ X0 \ X1) \Leftrightarrow (r1_tarski \ X0 \ X1) \quad (8)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (9)$$

Assume the following.

$$\forall X0. \forall X1. ((v7_ordinal1 \ X0) \wedge (v7_ordinal1 \ X1)) \Rightarrow (v7_ordinal1 \ (k2_xcmplx_0 \ X0 \ X1)) \quad (10)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (\forall X1. (m1_mycielsk \ X1 \ X0) \Rightarrow ((v1_orders_2 \ X1) \wedge (l1_orders_2 \ X1))) \quad (11)$$

Assume the following.

$$\forall X0. \forall X1. ((v7_ordinal1 \ X0) \wedge (m1_mycielsk \ X1 \ X0)) \Rightarrow (m1_mycielsk \ (k6_mycielsk \ X0 \ X1) \ (k2_xcmplx_0 \ (k3_xcmplx_0 \ np_{-2} \ X0) \ np_{-1})) \quad (12)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (\forall X1. ((v1_orders_2 \ X1) \wedge (l1_orders_2 \ X1)) \Rightarrow ((m1_mycielsk \ X1 \ X0) \Leftrightarrow (u1_struct_0 \ X1 = X0))) \quad (13)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (14)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (v3_ordinal1 \ X0) \quad (15)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (v1_xxreal_0 \ X0) \quad (16)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (v1_xcmplx_0 \ X0) \quad (17)$$

Theorem 1

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (\forall X1. (m1_mycielsk \ X1 \ X0) \Rightarrow (r1_tarski \ (u1_struct_0 \ X1) \ (u1_struct_0 \ (k6_mycielsk \ X0 \ X1))))$$