

t34_mycielsk (TMJdJqtwEzQyUR- cLFajL2DcQ6d65N9AHQKs)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_dilworth : \iota \Rightarrow \iota$ be given. Let $k5_mycielsk : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v4_dilworth : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_dilworth : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_mycielsk : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v8_struct_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v4_dilworth X0) \wedge (l1_orders_2 X0))) \Rightarrow (((v1_dilworth (k2_struct_0 X0) X0) \wedge (m1_subset_1 (k2_struct_0 X0) (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow (k2_dilworth X0 = np_1)) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_dilworth (k2_struct_0 (k5_mycielsk X0)) (k5_mycielsk X0)) \quad (2)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_mycielsk X1 X0) \Rightarrow ((v1_orders_2 X1) \wedge (l1_orders_2 X1))) \quad (3)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (l1_struct_0 X0) \quad (4)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (m1_mycielsk (k5_mycielsk X0) X0) \quad (5)$$

Assume the following.

$$\forall X0.(l1_struct_0 X0) \Rightarrow (m1_subset_1 (k2_struct_0 X0) (k1_zfmisc_1 (u1_struct_0 X0))) \quad (6)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v8_struct_0 X0) \Rightarrow (v4_dilworth X0)) \quad (7)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_mycielsk X1 X0) \Rightarrow (v8_struct_0 X1)) \quad (8)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (\forall X1.(m1_mycielsk X1 X0) \Rightarrow (\neg v2_struct_0 X1)) \quad (9)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (k2_dilworth (k5_mycielsk X0) = np_1)$$