

# t50\_mycielsk (TMGURm- RKRPs8zssmPUQz4FSBT3oDeG3sysf)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_dilworth : \iota \Rightarrow \iota$  be given. Let  $k7\_mycielsk : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k2\_mycielsk : \iota \Rightarrow \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k5\_mycielsk : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k6\_mycielsk : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_nat\_d : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $k2\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v3\_necklace : \iota \Rightarrow o$  be given. Let  $m1\_mycielsk : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  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  $np\_0 : \iota$  be given. Let  $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$(k7\_mycielsk k6\_numbers = k5\_mycielsk np\_2) \wedge (\forall X0.(v7\_ordinal1 X0) \Rightarrow (k7\_mycielsk (k2\_xcmplx\_0 X0 np\_1) = k6\_mycielsk (k7\_nat\_d (k3\_xcmplx\_0 np\_3 (k2\_newton np\_2 X0)) np\_1) (k7\_mycielsk X0))) \quad (2)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.((v3\_necklace X1) \wedge (m1\_mycielsk X1 X0)) \Rightarrow (k2\_mycielsk (k6\_mycielsk X0 X1) = k2\_xcmplx\_0 np\_1 (k2\_mycielsk X1))) \quad (3)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.((v3\_necklace X1) \wedge (m1\_mycielsk X1 X0)) \Rightarrow ((r1\_xxreal\_0 np\_2 (k1\_dilworth X1)) \Rightarrow (k1\_dilworth X1 = k1\_dilworth (k6\_mycielsk X0 X1)))) \quad (4)$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(k2\_mycielsk\ (k5\_mycielsk\ X0) = X0) \quad (5)$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(k1\_dilworth\ (k5\_mycielsk\ X0) = X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_xcmplx\_0\ X0)\wedge((v1\_xcmplx\_0\ X1)\wedge(v1\_xcmplx\_0\ X2)))\Rightarrow(k2\_xcmplx\_0\ (k2\_xcmplx\_0\ X0\ X1)\ X2 = k2\_xcmplx\_0\ X0\ (k2\_xcmplx\_0\ X1\ X2)) \quad (7)$$

Assume the following.

$$((v2\_xxreal\_0\ np\_3)\wedge(m2\_subset\_1\ np\_3\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_3\ k5\_numbers)\wedge(m1\_subset\_1\ np\_3\ k1\_numbers)) \quad (8)$$

Assume the following.

$$((v2\_xxreal\_0\ np\_2)\wedge(m2\_subset\_1\ np\_2\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_2\ k5\_numbers)\wedge(m1\_subset\_1\ np\_2\ k1\_numbers)) \quad (9)$$

Assume the following.

$$((v2\_xxreal\_0\ np\_1)\wedge(m2\_subset\_1\ np\_1\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_1\ k5\_numbers)\wedge(m1\_subset\_1\ np\_1\ k1\_numbers)) \quad (10)$$

Assume the following.

$$v1\_xboole\_0\ np\_0 \quad (11)$$

Assume the following.

$$\forall X0 : \iota\Rightarrow o.((X0\ k6\_numbers)\wedge(\forall X1.(v7\_ordinal1\ X1)\Rightarrow((X0\ X1)\Rightarrow(X0\ (k1\_nat\_1\ X1\ np\_1))))\Rightarrow(\forall X1.(v7\_ordinal1\ X1)\Rightarrow(X0\ X1)) \quad (12)$$

Assume the following.

$$k2\_xcmplx\_0\ np\_0\ np\_2 = np\_2 \quad (13)$$

Assume the following.

$$r1\_xxreal\_0\ np\_2\ np\_2 \quad (14)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (15)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k1\_numbers)\wedge(v7\_ordinal1 X1))\Rightarrow(k2\_newton X0 X1 = k1\_newton X0 X1) \quad (17)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1 X0)\wedge(m1\_subset\_1 X1 k5\_numbers))\Rightarrow(k1\_nat\_1 X0 X1 = k2\_xcmplx\_0 X0 X1) \quad (18)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1 X0)\wedge(v7\_ordinal1 X1))\Rightarrow(v7\_ordinal1 (k1\_newton X0 X1)) \quad (19)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1 X0)\wedge(v7\_ordinal1 X1))\Rightarrow(v7\_ordinal1 (k3\_xcmplx\_0 X0 X1)) \quad (20)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1 X0)\wedge(v7\_ordinal1 X1))\Rightarrow(v7\_ordinal1 (k2\_xcmplx\_0 X0 X1)) \quad (21)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0)\Rightarrow(v3\_necklace (k7\_mycielsk X0)) \quad (22)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1 X0)\wedge(v7\_ordinal1 X1))\Rightarrow(m1\_subset\_1 (k7\_nat\_d X0 X1) k5\_numbers) \quad (23)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0)\Rightarrow(m1\_mycielsk (k7\_mycielsk X0) (k7\_nat\_d (k3\_xcmplx\_0 np\_3 (k2\_newton np\_2 X0)) np\_1)) \quad (24)$$

Assume the following.

$$k1\_xboole\_0 = the (\lambda X0 : \iota.v1\_xboole\_0 X0) \quad (25)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0 X0)\wedge(v1\_xcmplx\_0 X1))\Rightarrow(k2\_xcmplx\_0 X0 X1 = k2\_xcmplx\_0 X1 X0) \quad (26)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1)\Rightarrow(v7\_ordinal1 X0) \quad (27)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0)\Rightarrow(v1\_xcmplx\_0 X0) \quad (28)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers)\Rightarrow(v1\_xcmplx\_0 X0) \quad (29)$$

**Theorem 1**

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow((k1\_dilworth\ (k7\_mycielsk\ X0) = np\_2)\wedge(k2\_mycielsk\ (k7\_mycielsk\ X0) = k2\_xcmplx\_0\ X0\ np\_2))$$