

t24_mycielsk

(TMNnQ9jEyo5HunBBofRjiLwGE9KTcghg3vS)

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Let $v1_necklace : \iota \Rightarrow o$ be given. Let $v4_dilworth : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $k2_dilworth : \iota \Rightarrow \iota$ be given. Let $k1_dilworth : \iota \Rightarrow \iota$ be given. Let $k3_necklace : \iota \Rightarrow \iota$ be given. Let $v2_dilworth : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1_dilworth : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $v3_dilworth : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.((v2_dilworth X1 X0) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow ((v1_dilworth \\ X1 (k3_necklace X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ (k3_necklace X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_necklace X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ ((v1_dilworth X1 (k3_necklace X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ (u1_struct_0 (k3_necklace X0)))))) \Rightarrow ((v2_dilworth X1 X0) \wedge (m1_subset_1 \\ X1 (k1_zfmisc_1 (u1_struct_0 X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_necklace X0) \wedge ((v4_dilworth X0) \wedge (l1_orders_2 \\ X0))) \Rightarrow ((v1_orders_2 (k3_necklace X0)) \wedge (v3_dilworth (k3_necklace \\ X0))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow ((v1_orders_2 (k3_necklace X0)) \wedge \\ (l1_orders_2 (k3_necklace X0))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.((v4_dilworth X0) \wedge (l1_orders_2 X0)) \Rightarrow (v7_ordinal1 \\ (k2_dilworth X0)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v4_dilworth\ X0)\wedge(l1_orders_2\ X0))\Rightarrow(\forall X1. \\
& (v7_ordinal1\ X1)\Rightarrow((X1 = k2_dilworth\ X0)\Leftrightarrow((\exists X2.((v1_finset_1 \\
& X2)\wedge((v2_dilworth\ X2\ X0)\wedge(m1_subset_1\ X2\ (k1_zfmisc_1\ (u1_struct_0 \\
& X0))))))\wedge(k5_card_1\ X2 = X1))\wedge(\forall X2.((v1_finset_1\ X2)\wedge(\\
& (v2_dilworth\ X2\ X0)\wedge(m1_subset_1\ X2\ (k1_zfmisc_1\ (u1_struct_0 \\
& X0))))))\Rightarrow(r1_xxreal_0\ (k5_card_1\ X2\ X1))))))
\end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v3_dilworth\ X0)\wedge(l1_orders_2\ X0))\Rightarrow(\forall X1. \\
& (v7_ordinal1\ X1)\Rightarrow((X1 = k1_dilworth\ X0)\Leftrightarrow((\exists X2.((v1_finset_1 \\
& X2)\wedge((v1_dilworth\ X2\ X0)\wedge(m1_subset_1\ X2\ (k1_zfmisc_1\ (u1_struct_0 \\
& X0))))))\wedge(k5_card_1\ X2 = X1))\wedge(\forall X2.((v1_finset_1\ X2)\wedge(\\
& (v1_dilworth\ X2\ X0)\wedge(m1_subset_1\ X2\ (k1_zfmisc_1\ (u1_struct_0 \\
& X0))))))\Rightarrow(r1_xxreal_0\ (k5_card_1\ X2\ X1))))))
\end{aligned} \tag{7}$$

Theorem 1

$$\forall X0.((v1_necklace\ X0)\wedge((v4_dilworth\ X0)\wedge(l1_orders_2\ X0)))\Rightarrow(k2_dilworth\ X0 = k1_dilworth\ (k3_necklace\ X0))$$