

t25_mycielsk
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Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v6_dilworth : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_eqrel_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v5_dilworth : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1_dilworth : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $k7_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ 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.

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v1_orders_2 (k3_necklace X0)) \wedge (l1_orders_2 (k3_necklace X0))) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.((v1_orders_2 X1) \wedge (\\ l1_orders_2 X1)) \Rightarrow ((X1 = k3_necklace X0) \Leftrightarrow ((u1_struct_0 X1 = u1_struct_0 \\ X0) \wedge (u1_orders_2 X1 = k7_subset_1 (k2_zfmisc_1 (u1_struct_0 X0) \\ (u1_struct_0 X0)) (k3_subset_1 (k2_zfmisc_1 (u1_struct_0 X0) \\ (u1_struct_0 X0)) (u1_orders_2 X0)) (k6_partfun1 (u1_struct_0 \\ X0)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_eqrel_1 X1 (u1_struct_0 X0)) \Rightarrow ((v6_dilworth X1 X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Rightarrow ((v2_dilworth X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0)))))) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_eqrel_1 X1 (u1_struct_0 \\ X0)) \Rightarrow ((v5_dilworth X1 X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Rightarrow ((v1_dilworth \\ X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))))))) \end{aligned} \quad (5)$$

Theorem 1

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.((v6_dilworth X1 X0) \wedge \\ (m1_eqrel_1 X1 (u1_struct_0 X0))) \Rightarrow ((v5_dilworth X1 (k3_necklace \\ X0)) \wedge (m1_eqrel_1 X1 (u1_struct_0 (k3_necklace X0)))))) \end{aligned}$$