t27_mycielsk (TMYMoZ8hXSvqhUt1jPmoJMpNrEhyafKNi7u)

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Let $v1\_necklace : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v5\_dilworth : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_eqrel\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v6\_dilworth : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_necklace : \iota \Rightarrow \iota$ be given. Let $v1\_dilworth : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v2\_dilworth : \iota \Rightarrow \iota \Rightarrow o$ 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.

$$\forall X0.((v1\_necklace\ X0) \wedge (l1\_orders\_2\ X0)) \Rightarrow (\forall X1.((v1\_dilworth\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))) \Rightarrow ((v2\_dilworth\ X1\ (k3\_necklace\ X0)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_necklace\ X0)))))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow ((v1\_orders\_2\ (k3\_necklace\ X0)) \wedge (l1\_orders\_2\ (k3\_necklace\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.((v1\_orders\_2\ X1) \wedge (l1\_orders\_2\ X1)) \Rightarrow ((X1 = k3\_necklace\ X0) \Leftrightarrow ((u1\_struct\_0\ X1 = u1\_struct\_0\ X0) \wedge (u1\_orders\_2\ X1 = k7\_subset\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (k3\_subset\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_orders\_2\ X0))\ (k6\_partfun1\ (u1\_struct\_0\ X0)))))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.(m1\_eqrel\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow ((v6\_dilworth\ X1\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Rightarrow ((v2\_dilworth\ X2\ X0) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))))))) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.(m1\_eqrel\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow((v5\_dilworth\ X1\ X0)\Leftrightarrow(\forall X2.(X2\in X1)\Rightarrow((v1\_dilworth\ X2\ X0)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))))) \tag{5}$$

Theorem 1

$$\forall X0.((v1\_necklace\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow(\forall X1.((v5\_dilworth\ X1\ X0)\wedge(m1\_eqrel\_1\ X1\ (u1\_struct\_0\ X0)))\Rightarrow((v6\_dilworth\ X1\ (k3\_necklace\ X0))\wedge(m1\_eqrel\_1\ X1\ (u1\_struct\_0\ (k3\_necklace\ X0))))))$$