t28_neckla_3 (TMYXB-Drq6g2bPRQSgqNfT5X3Aq8Xca7eVB7)

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Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_neckla\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_msualg\_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_orders\_2 : \iota \Rightarrow \iota$ be given. Let $v3\_relat\_2 : \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_eqrel\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v8\_relat\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v3\_relat\_2\ X3) \wedge ((v1\_partfun1\ X3\ X0) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))))) \Rightarrow ((k4\_tarski\ X1\ X2 \in X3) \Rightarrow (k4\_tarski\ X2\ X1 \in X3)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v3\_relat\_2\ X3) \wedge ((v1\_partfun1\ X3\ X0) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))))) \Rightarrow ((X1 \in k6\_eqrel\_1\ X0\ X0\ X3\ X2) \Leftrightarrow (k4\_tarski\ X1\ X2 \in X3)) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (m1\_subset\_1\ (u1\_orders\_2\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))) \Rightarrow ((v1\_partfun1\ (k1\_msualg\_5\ X0\ X1)\ X0) \wedge ((v3\_relat\_2\ (k1\_msualg\_5\ X0\ X1)) \wedge ((v8\_relat\_2\ (k1\_msualg\_5\ X0\ X1)) \wedge (m1\_subset\_1\ (k1\_msualg\_5\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))))))) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (k1\_neckla\_3\ X0\ X1 = k6\_eqrel\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (k1\_msualg\_5\ (u1\_struct\_0\ X0)\ (u1\_orders\_2\ X0))\ X1)) \tag{5}$$

Theorem 1

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(X2 \in k1\_neckla\_3\ X0\ X1)\Rightarrow(k4\_tarski\ X1\ X2 \in k1\_msualg\_5\ (u1\_struct\_0\ X0)\ (u1\_orders\_2\ X0))))$$