t23_neckla_3 (TMZANC8xLmyCzq9wSADCPiAyy3upQ7Tvk5h)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v4\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_neckla\_2 : \iota \Rightarrow o$ be given. Let $r2\_necklace : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $np\_\_4 : \iota$ 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 $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $r1\_necklace : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k4\_necklace : \iota \Rightarrow \iota$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \Rightarrow (\forall X1.\ ((\neg v2\_struct\_0\ X1) \wedge ((v4\_yellow\_0\ X1\ X0) \wedge (m1\_yellow\_0\ X1\ X0))) \Rightarrow (r2\_necklace\ X1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \Rightarrow (\forall X1.\ ((\neg v2\_struct\_0\ X1) \wedge (l1\_orders\_2\ X1)) \Rightarrow (\forall X2.((\neg v2\_struct\_0\ X2) \wedge (l1\_orders\_2\ X2)) \Rightarrow (((r2\_necklace\ X1\ X0) \wedge (r2\_necklace\ X2\ X1)) \Rightarrow (r2\_necklace\ X2\ X0)))) \tag{2}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_4) \wedge (m2\_subset\_1\ np\_\_4\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_4\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_4\ k1\_numbers)) \tag{3}$$

Assume the following.

$$\neg v1\_xboole\_0\ np\_\_4 \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \wedge ((\neg v2\_struct\_0\ X1) \wedge (l1\_orders\_2\ X1))) \Rightarrow ((r2\_necklace\ X0\ X1) \Leftrightarrow (r1\_necklace\ X0\ X1)) \tag{5}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{6}$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0)\wedge(v7\_ordinal1\ X0))\Rightarrow((\neg v2\_struct\_0\ (k4\_necklace\ X0))\wedge(v1\_orders\_2\ (k4\_necklace\ X0))) \tag{7}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.(m1\_yellow\_0\ X1\ X0)\Rightarrow(l1\_orders\_2\ X1)) \tag{8}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow((v1\_orders\_2\ (k4\_necklace\ X0))\wedge(l1\_orders\_2\ (k4\_necklace\ X0))) \tag{9}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow((v1\_neckla\_2\ X0)\Leftrightarrow(\neg r1\_necklace\ (k4\_necklace\ np\_\_4)\ X0)) \tag{10}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{11}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v4\_yellow\_0\ X1\ X0)\wedge(m1\_yellow\_0\ X1\ X0)))\Rightarrow((v1\_neckla\_2\ X0)\Rightarrow(v1\_neckla\_2\ X1)))$$