t61_tex_2 (TMTewiTsmTLAJL7Hz7z4KeuSvy4BJjBhtQn)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $v3\_tdlat\_3 : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $v1\_tdlat\_3 : \iota \Rightarrow o$ be given. Let $m1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_pre\_topc : \iota \Rightarrow o$ be given. Let $v4\_tex\_2 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v2\_tex\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_tex\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge ((v3\_tdlat\_3\ X0) \wedge (l1\_pre\_topc\ X0)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\neg (v2\_tex\_2\ X1\ X0) \wedge (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\neg (r1\_tarski\ X1\ X2) \wedge (v3\_tex\_2\ X2\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow (\forall X1.(m1\_pre\_topc\ X1\ X0) \Rightarrow (\forall X2.(m1\_pre\_topc\ X2\ X0) \Rightarrow ((r1\_tarski\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X2)) \Leftrightarrow (m1\_pre\_topc\ X1\ X2)))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))) \Rightarrow (\neg (v3\_tex\_2\ X1\ X0) \wedge (\forall X2.((\neg v2\_struct\_0\ X2) \wedge ((v1\_pre\_topc\ X2) \wedge (m1\_pre\_topc\ X2\ X0))) \Rightarrow (\neg (v4\_tex\_2\ X2\ X0) \wedge (X1 = u1\_struct\_0\ X2))))) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.((v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))) \Rightarrow (\neg v3\_tex\_2\ X1\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ X1))\Leftrightarrow(r1\_tarski\ X0\ X1) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_pre\_topc\ X0))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge(m1\_pre\_topc\ X1\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow((X2 = u1\_struct\_0\ X1)\Rightarrow((v2\_tex\_2\ X2\ X0)\Leftrightarrow(v1\_tdlat\_3\ X1))))) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0)\Rightarrow(\forall X1.(m1\_pre\_topc\ X1\ X0)\Rightarrow(m1\_subset\_1\ (u1\_struct\_0\ X1)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))) \tag{7}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_pre\_topc\ X0)\wedge((v3\_tdlat\_3\ X0)\wedge(l1\_pre\_topc\ X0))))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v1\_tdlat\_3\ X1)\wedge(m1\_pre\_topc\ X1\ X0)))\Rightarrow(\exists X2.((\neg v2\_struct\_0\ X2)\wedge((v1\_pre\_topc\ X2)\wedge(m1\_pre\_topc\ X2\ X0)))\wedge((m1\_pre\_topc\ X1\ X2)\wedge(v4\_tex\_2\ X2\ X0))))$$