t55_tex_3 (TMcydLtrYgheK13ynvnk7tnmt3TvWXcoqT3)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $v1\_tdlat\_3 : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $g1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_pre\_topc : \iota \Rightarrow \iota$ be given. Let $v3\_tex\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_pre\_topc : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow (\forall X1.\ (m1\_pre\_topc\ X1\ X0) \Rightarrow (\forall X2.(m1\_pre\_topc\ X2\ X1) \Rightarrow (m1\_pre\_topc\ X2\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(l1\_pre\_topc\ X1) \Rightarrow ((m1\_pre\_topc\ X0\ X1) \Leftrightarrow (m1\_pre\_topc\ X0\ (g1\_pre\_topc\ (u1\_struct\_0\ X1)\ (u1\_pre\_topc\ X1))))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.(m1\_pre\_topc\ X1\ X0) \Rightarrow (\forall X2.(m1\_pre\_topc\ X2\ X0) \Rightarrow (((v3\_tex\_3\ X1\ X0) \wedge (m1\_pre\_topc\ X2\ X1)) \Rightarrow (v3\_tex\_3\ X2\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (m1\_pre\_topc\ X0\ X0) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(m1\_pre\_topc\ X1\ X0) \Rightarrow ((v1\_pre\_topc\ (g1\_pre\_topc\ (u1\_struct\_0\ X1)\ (u1\_pre\_topc\ X1))) \wedge (m1\_pre\_topc\ (g1\_pre\_topc\ (u1\_struct\_0\ X1)\ (u1\_pre\_topc\ X1))\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (m1\_pre\_topc\ (g1\_pre\_topc\ (u1\_struct\_0\ X0)\ (u1\_pre\_topc\ X0))\ X0) \tag{6}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_pre\_topc\ X0)\wedge((\neg v1\_tdlat\_3\ X0)\wedge(l1\_pre\_topc\ X0))))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v2\_pre\_topc\ X1)\wedge(l1\_pre\_topc\ X1)))\Rightarrow(\forall X2.((\neg v2\_struct\_0\ X2)\wedge((v2\_pre\_topc\ X2)\wedge(l1\_pre\_topc\ X2)))\Rightarrow((X2 = g1\_pre\_topc\ (u1\_struct\_0\ X1)\ (u1\_pre\_topc\ X1))\Rightarrow(((v3\_tex\_3\ X1\ X0)\wedge(m1\_pre\_topc\ X1\ X0))\Leftrightarrow((v3\_tex\_3\ X2\ X0)\wedge(m1\_pre\_topc\ X2\ X0))))))$$