t74_tex_3 (TMc1rVM2WV4EmPpKDFGv1pQ3U91zVECCKNd)

October 27, 2020

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 $v4\_tex\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_pre\_topc : \iota \Rightarrow o$ be given. Let $v1\_tsep\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_tex\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_tex\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_borsuk\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_tex\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r4\_tsep\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge ((\neg v3\_tdlat\_3\ X0) \wedge (l1\_pre\_topc\ X0)))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v1\_borsuk\_1\ X1\ X0) \wedge ((v3\_tex\_3\ X1\ X0) \wedge (m1\_pre\_topc\ X1\ X0)))) \Rightarrow (\exists X2.((\neg v2\_struct\_0\ X2) \wedge ((v1\_pre\_topc\ X2) \wedge ((v1\_tsep\_1\ X2\ X0) \wedge ((v1\_tex\_2\ X2\ X0) \wedge ((v1\_tex\_3\ X2\ X0) \wedge (m1\_pre\_topc\ X2\ X0)))))) \wedge (r4\_tsep\_2\ X0\ X1\ X2))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge (m1\_pre\_topc\ X1\ X0)) \Rightarrow ((v4\_tex\_3\ X1\ X0) \Leftrightarrow (\exists X2.((\neg v2\_struct\_0\ X2) \wedge ((v1\_pre\_topc\ X2) \wedge ((v1\_borsuk\_1\ X2\ X0) \wedge (m1\_pre\_topc\ X2\ X0)))) \wedge ((v3\_tex\_3\ X2\ X0) \wedge (m1\_pre\_topc\ X1\ X2))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \wedge (((\neg v2\_struct\_0\ X1) \wedge (m1\_pre\_topc\ X1\ X0)) \wedge ((\neg v2\_struct\_0\ X2) \wedge (m1\_pre\_topc\ X2\ X0)))) \Rightarrow ((r4\_tsep\_2\ X0\ X1\ X2) \Rightarrow (r4\_tsep\_2\ X0\ X2\ X1)) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_pre\_topc\ X0)\wedge((\neg v3\_tdlat\_3\ X0)\wedge(l1\_pre\_topc\ X0))))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v4\_tex\_3\ X1\ X0)\wedge(m1\_pre\_topc\ X1\ X0)))\Rightarrow(\exists X2.((\neg v2\_struct\_0\ X2)\wedge((v1\_pre\_topc\ X2)\wedge((v1\_tsep\_1\ X2\ X0)\wedge((v1\_tex\_2\ X2\ X0)\wedge((v1\_tex\_3\ X2\ X0)\wedge(m1\_pre\_topc\ X2\ X0))))))\wedge(\exists X3.((\neg v2\_struct\_0\ X3)\wedge((v1\_pre\_topc\ X3)\wedge((v1\_borsuk\_1\ X3\ X0)\wedge((v3\_tex\_3\ X3\ X0)\wedge(m1\_pre\_topc\ X3\ X0)))))\wedge((r4\_tsep\_2\ X0\ X2\ X3)\wedge(m1\_pre\_topc\ X1\ X3)))))$$