t18_tex_2 (TMG-BqmxdDNNy1YqnQntXo9qVVAdEWyHr4iu)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $k1\_tex\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_tdlat\_3 : \iota \Rightarrow o$ be given. Let $v2\_tdlat\_3 : \iota \Rightarrow o$ be given. Let $v13\_struct\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_pre\_topc : \iota \Rightarrow o$ be given. Let $m1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge (l1\_pre\_topc\ X0)) \wedge (m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))) \Rightarrow ((\neg v2\_struct\_0\ (k1\_tex\_2\ X0\ X1)) \wedge ((v13\_struct\_0\ (k1\_tex\_2\ X0\ X1)\ np\_\_1) \wedge (v1\_pre\_topc\ (k1\_tex\_2\ X0\ X1)))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(m1\_pre\_topc\ X1\ X0) \Rightarrow (l1\_pre\_topc\ X1)) \tag{2}$$

Assume the following.

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

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (((v13\_struct\_0\ X0\ np\_\_1) \wedge (v2\_pre\_topc\ X0)) \Rightarrow ((v13\_struct\_0\ X0\ np\_\_1) \wedge ((v2\_pre\_topc\ X0) \wedge ((v1\_tdlat\_3\ X0) \wedge (v2\_tdlat\_3\ X0))))) \tag{4}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow ((v2\_pre\_topc\ (k1\_tex\_2\ X0\ X1)) \Rightarrow ((v1\_tdlat\_3\ (k1\_tex\_2\ X0\ X1)) \wedge (v2\_tdlat\_3\ (k1\_tex\_2\ X0\ X1))))))$$