

t64\_tex\_3

(TMVuTHfgrmk1zXLoSX43u84XdWiTtjcuJZ9)

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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  $v4\_tex\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $v1\_tex\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v2\_tex\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r4\_tsep\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_tdlat\_3 : \iota \Rightarrow o$  be given. Let  $v3\_tex\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_tex\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge ((\neg v1\_tdlat\_3 \\ & X0) \wedge (l1\_pre\_topc X0)))) \Rightarrow (\forall X1.((\neg v2\_struct\_0 X1) \wedge ((v3\_tex\_3 \\ & X1 X0) \wedge (m1\_pre\_topc X1 X0))) \Rightarrow (\exists X2.((\neg v2\_struct\_0 X2) \wedge \\ & ((v1\_pre\_topc X2) \wedge ((v1\_tex\_2 X2 X0) \wedge ((v1\_tex\_3 X2 X0) \wedge (m1\_pre\_topc \\ & X2 X0)))))) \wedge (r4\_tsep\_2 X0 X1 X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc \\ & X0))) \Rightarrow (\forall X1.((\neg v2\_struct\_0 X1) \wedge (m1\_pre\_topc X1 X0)) \Rightarrow ( \\ & \forall X2.((\neg v2\_struct\_0 X2) \wedge (m1\_pre\_topc X2 X0)) \Rightarrow ((r4\_tsep\_2 \\ & X0 X1 X2) \Rightarrow ((v4\_tex\_3 X1 X0) \Leftrightarrow (v2\_tex\_3 X2 X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge ((\neg v3\_tdlat\_3 \\ & X0) \wedge (l1\_pre\_topc X0)))) \Rightarrow (\exists X1.(m1\_pre\_topc X1 X0) \wedge ((\neg \\ & v2\_struct\_0 X1) \wedge ((v1\_pre\_topc X1) \wedge ((v2\_pre\_topc X1) \wedge ((v1\_tex\_2 \\ & X1 X0) \wedge (v2\_tex\_3 X1 X0)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc \\ & X0))) \Rightarrow (\forall X1.(m1\_pre\_topc X1 X0) \Rightarrow ((\neg v1\_tex\_3 X1 X0) \Rightarrow (\neg v2\_tex\_3 \\ & X1 X0))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge ((v1\_tdlat\_3 X0) \wedge (l1\_pre\_topc X0)))) \Rightarrow (\forall X1.(m1\_pre\_topc X1 X0) \Rightarrow ((v1\_tex\_2 X1 X0) \Rightarrow (\neg v1\_tex\_3 X1 X0))) \quad (5)$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0))) \Rightarrow (\forall X1.(m1\_pre\_topc X1 X0) \Rightarrow ((v4\_tex\_3 X1 X0) \Rightarrow (v3\_tex\_3 X1 X0))) \quad (6)$$

**Theorem 1**

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