t33_tex_2 (TMWiw23Msd1RoMjsfYCeW7jCcUbsuE6DxdW)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v4\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_tex\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.\ (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (((v4\_pre\_topc\ X1\ X0) \wedge (v4\_pre\_topc\ X2\ X0)) \Rightarrow (v4\_pre\_topc\ (k4\_subset\_1\ (u1\_struct\_0\ X0)\ X1\ X2)\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.\ (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (((v4\_pre\_topc\ X1\ X0) \wedge (v4\_pre\_topc\ X2\ X0)) \Rightarrow (v4\_pre\_topc\ (k9\_subset\_1\ (u1\_struct\_0\ X0)\ X1\ X2)\ X0))))) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow ((\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (((v4\_pre\_topc\ X1\ X0) \wedge (v4\_pre\_topc\ X2\ X0)) \Rightarrow ((v4\_pre\_topc\ (k9\_subset\_1\ (u1\_struct\_0\ X0)\ X1\ X2)\ X0) \wedge (v4\_pre\_topc\ (k4\_subset\_1\ (u1\_struct\_0\ X0)\ X1\ X2)\ X0))))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (((v4\_pre\_topc\ X1\ X0) \wedge ((v4\_pre\_topc\ X2\ X0) \wedge ((v2\_tex\_2\ X1\ X0) \wedge (v2\_tex\_2\ X2\ X0)))) \Rightarrow (v2\_tex\_2\ (k4\_subset\_1\ (u1\_struct\_0\ X0)\ X1\ X2)\ X0))))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_pre\_topc\ X0)\wedge(l1\_pre\_topc\ X0)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow(((v4\_pre\_topc\ X1\ X0)\wedge((v4\_pre\_topc\ X2\ X0)\wedge((v2\_tex\_2\ X1\ X0)\wedge(v2\_tex\_2\ X2\ X0))))\Rightarrow(v2\_tex\_2\ (k4\_subset\_1\ (u1\_struct\_0\ X0)\ X1\ X2)\ X0))))$$