

t20_yellow13 (TMXsrEdG- wEXDv2MWY5kX3gxVzNEcexSfYc9)

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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 $v1_yellow13 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_yellow13 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ X0)) \Rightarrow (\forall X2.(m1_yellow13\ X2\ X0\ X1) \Rightarrow ((X2 = ReplSep\ (toset\ (\\ \lambda X3 : \iota.m1_subset_1\ X3\ (k1_zfmisc_1\ (u1_struct_0\ X0))))\ (\\ \lambda X3 : \iota.X1 \in k1_tops_1\ X0\ X3)\ (\lambda X3 : \iota.X3)) \Rightarrow (v1_yellow13 \\ X2\ X0\ X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ X0)) \Rightarrow (\forall X2.(X2 = ReplSep\ (toset\ (\lambda X3 : \iota.m1_subset_1 \\ X3\ (k1_zfmisc_1\ (u1_struct_0\ X0))))\ (\lambda X3 : \iota.X1 \in k1_tops_1 \\ X0\ X3)\ (\lambda X3 : \iota.X3)) \Rightarrow (m1_yellow13\ X2\ X0\ X1)))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ X0)) \Rightarrow ((v1_yellow13\ (ReplSep\ (toset\ (\lambda X2 : \iota.m1_subset_1 \\ X2\ (k1_zfmisc_1\ (u1_struct_0\ X0))))\ (\lambda X2 : \iota.X1 \in k1_tops_1 \\ X0\ X2)\ (\lambda X2 : \iota.X2))\ X0\ X1) \wedge (m1_yellow13\ (ReplSep\ (toset\ (\lambda X2 : \\ \iota.m1_subset_1\ X2\ (k1_zfmisc_1\ (u1_struct_0\ X0))))\ (\lambda X2 : \\ \iota.X1 \in k1_tops_1\ X0\ X2)\ (\lambda X2 : \iota.X2))\ X0\ X1)))) \end{aligned}$$