

t55_yellow_9

(TMR5HM2vjyKH yKi9GsKHZFR3v9iybAVRT92)

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Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m3_yellow_9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_tops_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $v2_cantor_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((l1_pre_topc X0) \wedge (l1_pre_topc X1)) \Rightarrow (\forall X2. (m3_yellow_9 X2 X0 X1) \Rightarrow ((v2_pre_topc X2) \wedge (l1_pre_topc X2))) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_pre_topc X0) \Rightarrow (\forall X1. (l1_pre_topc X1) \Rightarrow (\forall X2. \\ & ((v2_pre_topc X2) \wedge (l1_pre_topc X2)) \Rightarrow ((m3_yellow_9 X2 X0 X1) \Leftrightarrow \\ & ((u1_struct_0 X2 = k2_xboole_0 (u1_struct_0 X0) (u1_struct_0 X1)) \wedge \\ & ((v1_tops_2 (k2_xboole_0 (u1_pre_topc X0) (u1_pre_topc X1)) X2) \wedge \\ & ((v2_cantor_1 (k2_xboole_0 (u1_pre_topc X0) (u1_pre_topc X1)) \\ & X2) \wedge (m1_subset_1 (k2_xboole_0 (u1_pre_topc X0) (u1_pre_topc \\ & X1)) (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X2)))))))))) \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (3)$$

Theorem 1

$$\forall X0. (l1_pre_topc X0) \Rightarrow (\forall X1. (l1_pre_topc X1) \Rightarrow (\forall X2. (m3_yellow_9 X2 X0 X1) \Rightarrow (m3_yellow_9 X2 X1 X0)))$$