

l117_toprealb
(TMQKN75Z8Hi7K8PdB9e1CeRBHcpcRgBnyCh)

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Let $v5_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $c38_toprealb : \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k2_topalg_2 : \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_pscomp_1 : \iota$ be given. Assume the following.

$$u1_struct_0 \ k3_topmetr = k1_numbers \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (& (v1_funct_1 \ X0) \wedge ((v1_funct_2 \ X0 \ (u1_struct_0 \ (k15_euclid \\ & np_2)) \ (u1_struct_0 \ k3_topmetr)) \wedge (m1_subset_1 \ X0 \ (k1_zfmisc_1 \\ & (k2_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \ np_2)) \ (u1_struct_0 \ k3_topmetr)))))) \Rightarrow \\ & ((X0 = k4_pscomp_1) \Rightarrow (v5_pre_topc \ X0 \ (k15_euclid \ np_2) \ k3_topmetr)) \end{aligned} \quad (2)$$

Assume the following.

$$k2_topalg_2 = k3_topmetr \quad (3)$$

Assume the following.

$$\begin{aligned} (v1_funct_1 \ c38_toprealb) \wedge (& (v1_funct_2 \ c38_toprealb \ (u1_struct_0 \\ & (k15_euclid \ np_2)) \ (u1_struct_0 \ k2_topalg_2)) \wedge (m1_subset_1 \\ & c38_toprealb \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \\ & np_2)) \ (u1_struct_0 \ k2_topalg_2)))) \end{aligned} \quad (4)$$

Assume the following.

$$c38_toprealb = k4_pscomp_1 \quad (5)$$

Theorem 1 $v5_pre_topc \ c38_toprealb \ (k15_euclid \ np_2) \ k2_topalg_2$.