

t11_topalg_2 (TMRmBtNTUPXJkupToFHuLiJk- LoDD3e9ycoJ)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_borsuk_2 : \iota \Rightarrow o$ be given. Let $k4_topmetr : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_topalg_2 : \iota \Rightarrow o$ be given. Let $k2_topalg_2 : \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \Rightarrow (v2_topalg_2 (k4_topmetr X0 X1)))) \quad (1)$$

Assume the following.

$$k2_topalg_2 = k3_topmetr \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \Rightarrow ((\neg v2_struct_0 (k4_topmetr X0 X1)) \wedge ((v1_pre_topc (k4_topmetr X0 X1)) \wedge (m1_pre_topc (k4_topmetr X0 X1) k3_topmetr))) \quad (3)$$

Assume the following.

$$\forall X0.(m1_pre_topc X0 k2_topalg_2) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v2_topalg_2 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge (v1_borsuk_2 X0))) \quad (4)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \Rightarrow (v1_borsuk_2 (k4_topmetr X0 X1))))$$