

t2_convex4

(TMH84NuVC8kkauTfxV9toHZGSU5voKzoqgv)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_numbers : \iota$ be given. Let $k2_convex4 : \iota \Rightarrow \iota$ be given. Let $k5_complex1 : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k4_rlvect_2 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $m1_convex4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_convex4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_rlvect_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_rlvect_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (k3_funct_2 (u1_struct_0 X0) \\ & k1_numbers (k4_rlvect_2 X0) X1 = k6_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_convex4 X1 X0) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow \\ & ((k3_funct_2 (u1_struct_0 X0) k2_numbers X1 X2 = k5_complex1) \Leftrightarrow \\ & (\neg X2 \in k1_convex4 X0 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_rlvect_2 X1 X0) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\ & X0)) \Rightarrow ((k3_funct_2 (u1_struct_0 X0) k1_numbers X1 X2 = k6_numbers) \Leftrightarrow \\ & (\neg X2 \in k3_rlvect_2 X0 X1)))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (m1_rlvect_2 (k4_rlvect_2 X0) X0) \quad (4)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (m1_convex4 (k2_convex4 X0) X0) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_rlvect_2 X1 X0) \Rightarrow ((X1 = k4_rlvect_2 X0) \Leftrightarrow (k3_rlvect_2 X0 X1 = \\ & k1_xboole_0))) \end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_convex4 X1 X0) \Rightarrow ((X1 = k2_convex4 X0) \Leftrightarrow (k1_convex4 X0 X1 = k1_xboole_0))) \end{aligned} \tag{7}$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (k3_funct_2 (u1_struct_0 X0) \\ & k2_numbers (k2_convex4 X0) X1 = k5_complex1)) \end{aligned}$$