

t21_convex4 (TMXxGyuxG- wjrg8VMYQxXa1M1yx1PXDoGzYT)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $m1_convex4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_convex4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_convex4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \wedge ((m1_convex4 X1 X0) \wedge (m1_convex4 X2 X0))) \Rightarrow ((r1_convex4 X0 X1 X2) \Leftrightarrow (X1 = X2)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \wedge ((m1_convex4 X1 X0) \wedge (m1_convex4 X2 X0))) \Rightarrow (m1_convex4 (k5_convex4 X0 X1 X2) X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \wedge ((m1_convex4 X1 X0) \wedge (m1_convex4 X2 X0))) \Rightarrow (k5_convex4 X0 X1 X2 = k5_convex4 X0 X2 X1) \quad (3)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. (m1_convex4 X1 X0) \Rightarrow (\forall X2. (m1_convex4 X2 X0) \Rightarrow (r1_convex4 X0 (k5_convex4 X0 X1 X2) (k5_convex4 X0 X2 X1))))$$