

t46_bcialg_5 (TM-
LKdd4P8TZF3PTHSo6xvkR6QS2mReUnVde)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v3_bcialg_1 : \iota \Rightarrow o$ be given. Let $v4_bcialg_1 : \iota \Rightarrow o$ be given. Let $v5_bcialg_1 : \iota \Rightarrow o$ be given. Let $v7_bcialg_1 : \iota \Rightarrow o$ be given. Let $l2_bcialg_1 : \iota \Rightarrow o$ be given. Let $v15_bcialg_1 : \iota \Rightarrow o$ be given. Let $m1_bcialg_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $v16_bcialg_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_bcialg_1 X0) \wedge ((v4_bcialg_1 \\ & X0) \wedge ((v5_bcialg_1 X0) \wedge ((v7_bcialg_1 X0) \wedge (l2_bcialg_1 X0)))))) \Rightarrow \\ & (((\neg v2_struct_0 X0) \wedge ((v3_bcialg_1 X0) \wedge ((v4_bcialg_1 X0) \wedge (\\ & v5_bcialg_1 X0) \wedge ((v7_bcialg_1 X0) \wedge ((v16_bcialg_1 X0) \wedge (l2_bcialg_1 \\ & X0))))))) \Rightarrow (m1_bcialg_5 X0 k6_numbers np_1 np_1 np_1)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l2_bcialg_1 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge ((v3_bcialg_1 \\ & X0) \wedge ((v4_bcialg_1 X0) \wedge ((v5_bcialg_1 X0) \wedge ((v7_bcialg_1 X0) \wedge \\ & (v15_bcialg_1 X0))))))) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v3_bcialg_1 X0) \wedge \\ & ((v4_bcialg_1 X0) \wedge ((v5_bcialg_1 X0) \wedge ((v7_bcialg_1 X0) \wedge (v16_bcialg_1 \\ & X0))))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_bcialg_1 X0) \wedge ((v4_bcialg_1 \\ & X0) \wedge ((v5_bcialg_1 X0) \wedge ((v7_bcialg_1 X0) \wedge (l2_bcialg_1 X0)))))) \Rightarrow \\ & (((\neg v2_struct_0 X0) \wedge ((v3_bcialg_1 X0) \wedge ((v4_bcialg_1 X0) \wedge (\\ & v5_bcialg_1 X0) \wedge ((v7_bcialg_1 X0) \wedge ((v15_bcialg_1 X0) \wedge (l2_bcialg_1 \\ & X0))))))) \Rightarrow (m1_bcialg_5 X0 k6_numbers np_1 np_1 np_1)) \end{aligned}$$