

t33_rusub_2 (TMXcmLx-
CYQkhjEPsC8roXbBYWFbvB2AKx8q)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v5_rlvect_1 : \iota \Rightarrow o$ be given. Let $v6_rlvect_1 : \iota \Rightarrow o$ be given. Let $v7_rlvect_1 : \iota \Rightarrow o$ be given. Let $v8_rlvect_1 : \iota \Rightarrow o$ be given. Let $v1_bhspl_1 : \iota \Rightarrow o$ be given. Let $v2_bhspl_1 : \iota \Rightarrow o$ be given. Let $l1_bhspl_1 : \iota \Rightarrow o$ be given. Let $k3_rusub_2 : \iota \Rightarrow \iota$ be given. Let $m1_rusub_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v2_rlvect_1 \\ &X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v5_rlvect_1 X0) \wedge \\ &((v6_rlvect_1 X0) \wedge ((v7_rlvect_1 X0) \wedge ((v8_rlvect_1 X0) \wedge ((v2_bhspl_1 \\ &X0) \wedge (l1_bhspl_1 X0)))))))))) \Rightarrow (m1_rusub_1 X0 X0) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v2_rlvect_1 \\ &X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v5_rlvect_1 X0) \wedge \\ &((v6_rlvect_1 X0) \wedge ((v7_rlvect_1 X0) \wedge ((v8_rlvect_1 X0) \wedge ((v2_bhspl_1 \\ &X0) \wedge (l1_bhspl_1 X0)))))))))) \Rightarrow (\forall X1. (X1 = k3_rusub_2 X0) \Leftrightarrow \\ &(\forall X2. (X2 \in X1) \Leftrightarrow ((v1_bhspl_1 X2) \wedge (m1_rusub_1 X2 X0)))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v2_rlvect_1 \\ &X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v5_rlvect_1 X0) \wedge \\ &((v6_rlvect_1 X0) \wedge ((v7_rlvect_1 X0) \wedge ((v8_rlvect_1 X0) \wedge ((v1_bhspl_1 \\ &X0) \wedge ((v2_bhspl_1 X0) \wedge (l1_bhspl_1 X0)))))))))) \Rightarrow (X0 \in k3_rusub_2 \\ &X0) \end{aligned}$$