

# t1\_prvect\_1 (TMKukhNygyFen7uuSa72arXxb6T8kjrsa98)

October 27, 2020

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  $l2\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $r3\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_algstr\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_algstr\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v1\_algstr\_1 X0) \wedge ((v4\_rlvect\_1 X0) \wedge (l2\_algstr\_0 X0)))) \Rightarrow (r3\_binop\_1 (u1\_struct\_0 X0) (k4\_struct\_0 X0) (u1\_algstr\_0 X0)) \quad (1)$$

Assume the following.

$$\forall X0. (l2\_algstr\_0 X0) \Rightarrow (((\neg v2\_struct\_0 X0) \wedge ((v2\_rlvect\_1 X0) \wedge (v4\_rlvect\_1 X0))) \Rightarrow ((\neg v2\_struct\_0 X0) \wedge (v1\_algstr\_1 X0))) \quad (2)$$

## Theorem 1

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v13\_algstr\_0 X0) \wedge ((v2\_rlvect\_1 X0) \wedge ((v3\_rlvect\_1 X0) \wedge ((v4\_rlvect\_1 X0) \wedge (l2\_algstr\_0 X0)))))) \Rightarrow (r3\_binop\_1 (u1\_struct\_0 X0) (k4\_struct\_0 X0) (u1\_algstr\_0 X0))$$