

t7\_tdggroup  
(TMXFD1kPijwCYobJixmvEW9YpFtDv8YtF4P)

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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  $v12\_vectsp\_1 : \iota \Rightarrow o$  be given. Let  $v1\_tdgroup : \iota \Rightarrow o$  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  $k1\_vectsp\_1 : \iota$  be given. Let  $v8\_algstr\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\neg \forall X0. (m1\_subset\_1 X0 (u1\_struct\_0 k1\_vectsp\_1)) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 k1\_vectsp\_1)) \Rightarrow (X0 = X1)) \quad (1)$$

Assume the following.

$$(v8\_algstr\_0 k1\_vectsp\_1) \wedge ((v13\_algstr\_0 k1\_vectsp\_1) \wedge ((v2\_rlvect\_1 k1\_vectsp\_1) \wedge ((v3\_rlvect\_1 k1\_vectsp\_1) \wedge (v4\_rlvect\_1 k1\_vectsp\_1)))) \quad (2)$$

Assume the following.

$$(\neg v2\_struct\_0 k1\_vectsp\_1) \wedge (v8\_algstr\_0 k1\_vectsp\_1) \quad (3)$$

Assume the following.

$$(v8\_algstr\_0 k1\_vectsp\_1) \wedge ((v12\_vectsp\_1 k1\_vectsp\_1) \wedge (v1\_tdgroup k1\_vectsp\_1)) \quad (4)$$

Assume the following.

$$(v8\_algstr\_0 k1\_vectsp\_1) \wedge (l2\_algstr\_0 k1\_vectsp\_1) \quad (5)$$

**Theorem 1**

$$\neg \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v13\_algstr\_0 X0) \wedge ((v2\_rlvect\_1 X0) \wedge ((v3\_rlvect\_1 X0) \wedge ((v4\_rlvect\_1 X0) \wedge ((v12\_vectsp\_1 X0) \wedge ((v1\_tdgroup X0) \wedge (l2\_algstr\_0 X0)))))))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (X1 = X2)))$$