

t1\_rltopsp1  
(TMU8hayx7dKf6aSKGryMYoCBb5Ek7DmiygF)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l1\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_rlvect\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_convex1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_rlvect\_1 X0)) \Rightarrow (\forall X1. \\
 & \quad (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (\forall X2. \\
 & \quad (m1\_subset\_1 X2 k1\_numbers) \Rightarrow (k1\_convex1 X0 X1 X2 = ReplSep (toset \\
 & \quad (\lambda X3 : \iota. m1\_subset\_1 X3 (u1\_struct\_0 X0))) (\lambda X3 : \iota. X3 \in \\
 & \quad X1) (\lambda X3 : \iota. k1\_rlvect\_1 X0 X3 X2))))))
 \end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned}
 & \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_rlvect\_1 X0)) \Rightarrow (\forall X1. \\
 & \quad (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (\forall X2. \\
 & \quad (m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 X3 \\
 & \quad k1\_numbers) \Rightarrow ((X2 \in X1) \Rightarrow (k1\_rlvect\_1 X0 X2 X3 \in k1\_convex1 X0 X1 X3))))))
 \end{aligned}$$