t12_rsspace (TMPY5w3isJG9Qu6BJyQYJPWJ3iAKKZsTKsq)

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Let $m1\_rlsub\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $g1\_rlvect\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11\_rsspace : \iota$ be given. Let $k10\_rsspace : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_rsspace : \iota$ be given. Let $k8\_rsspace : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_rsspace : \iota \Rightarrow \iota \Rightarrow \iota$ be given. 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 $l1\_rlvect\_1 : \iota \Rightarrow o$ 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 $v1\_rlsub\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_rlvect\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v13\_algstr\_0\ X0) \wedge ((v2\_rlvect\_1\ X0) \wedge ((v3\_rlvect\_1\ X0) \wedge ((v4\_rlvect\_1\ X0) \wedge ((v5\_rlvect\_1\ X0) \wedge ((v6\_rlvect\_1\ X0) \wedge ((v7\_rlvect\_1\ X0) \wedge ((v8\_rlvect\_1\ X0) \wedge (l1\_rlvect\_1\ X0))))))))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow ((v1\_rlsub\_1\ X1\ X0) \Rightarrow ((v1\_xboole\_0\ X1) \vee (m1\_rlsub\_1\ (g1\_rlvect\_1\ X1\ (k10\_rsspace\ X0\ X1)\ (k8\_rsspace\ X0\ X1)\ (k9\_rsspace\ X0\ X1))\ X0)))) \tag{1}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k11\_rsspace) \wedge (v1\_rlsub\_1\ k11\_rsspace\ k7\_rsspace) \tag{2}$$

Assume the following.

$$(v13\_algstr\_0\ k7\_rsspace) \wedge ((v2\_rlvect\_1\ k7\_rsspace) \wedge ((v3\_rlvect\_1\ k7\_rsspace) \wedge ((v4\_rlvect\_1\ k7\_rsspace) \wedge ((v5\_rlvect\_1\ k7\_rsspace) \wedge ((v6\_rlvect\_1\ k7\_rsspace) \wedge ((v7\_rlvect\_1\ k7\_rsspace) \wedge (v8\_rlvect\_1\ k7\_rsspace))))))) \tag{3}$$

Assume the following.

$$(\neg v2\_struct\_0\ k7\_rsspace) \wedge (v1\_rlvect\_1\ k7\_rsspace) \tag{4}$$

Assume the following.

$$l1\_rlvect\_1\ k7\_rsspace \tag{5}$$

Assume the following.

$$m1\_subset\_1\ k11\_rsspace\ (k1\_zfmisc\_1\ (u1\_struct\_0\ k7\_rsspace)) \tag{6}$$

Theorem 1

$$m1\_rlsub\_1\ (g1\_rlvect\_1\ k11\_rsspace\ (k10\_rsspace\ k7\_rsspace\ k11\_rsspace)\ (k8\_rsspace\ k7\_rsspace\ k11\_rsspace)\ (k9\_rsspace\ k7\_rsspace\ k11\_rsspace))\ k7\_rsspace$$