

l34_csspace (TMRVmtuPP- weqW7ZcxwJabGAojYBujMuo7vV)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_clvect_1 : \iota \Rightarrow \iota$ 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 $v2_clvect_1 : \iota \Rightarrow o$ be given. Let $v3_clvect_1 : \iota \Rightarrow o$ be given. Let $v4_clvect_1 : \iota \Rightarrow o$ be given. Let $v5_clvect_1 : \iota \Rightarrow o$ be given. Let $l1_clvect_1 : \iota \Rightarrow o$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_numbers : \iota$ be given. Let $c2_csspace : \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_complex1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k5_complex1 : \iota$ be given. Assume the following.

$$k15_complex1 \ k6_numbers = k6_numbers \quad (1)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (2)$$

Assume the following.

$$k5_complex1 = k1_xboole_0 \quad (3)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (u1_struct_0 (k3_clvect_1 (the (\lambda X1 : \\
& \quad \iota.(\neg v2_struct_0 X1)\wedge((v13_algstr_0 X1)\wedge((v2_rlvect_1 X1)\wedge \\
& \quad ((v3_rlvect_1 X1)\wedge((v4_rlvect_1 X1)\wedge((v2_clvect_1 X1)\wedge((v3_clvect_1 \\
& X1)\wedge((v4_clvect_1 X1)\wedge((v5_clvect_1 X1)\wedge(l1_clvect_1 X1))))))))))\Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \\
& \quad \iota.(\neg v2_struct_0 X2)\wedge((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge \\
& \quad ((v3_rlvect_1 X2)\wedge((v4_rlvect_1 X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 \\
& X2)\wedge((v4_clvect_1 X2)\wedge((v5_clvect_1 X2)\wedge(l1_clvect_1 X2))))))))))\Rightarrow \\
& \quad (k3_funct_2 (k2_zfmisc_1 (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \\
& \quad \iota.(\neg v2_struct_0 X2)\wedge((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge \\
& \quad ((v3_rlvect_1 X2)\wedge((v4_rlvect_1 X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 \\
& X2)\wedge((v4_clvect_1 X2)\wedge((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \iota.(\neg v2_struct_0 X2)\wedge \\
& ((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge((v3_rlvect_1 X2)\wedge((v4_rlvect_1 \\
& X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 X2)\wedge((v4_clvect_1 X2)\wedge \\
& ((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) k2_numbers \\
& c2_csspace (k1_domain_1 (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \\
& \quad \iota.(\neg v2_struct_0 X2)\wedge((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge \\
& \quad ((v3_rlvect_1 X2)\wedge((v4_rlvect_1 X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 \\
& X2)\wedge((v4_clvect_1 X2)\wedge((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \iota.(\neg v2_struct_0 X2)\wedge \\
& ((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge((v3_rlvect_1 X2)\wedge((v4_rlvect_1 \\
& X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 X2)\wedge((v4_clvect_1 X2)\wedge \\
& ((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) X0 X1) = k5_complex1))
\end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (u1_struct_0 (k3_clvect_1 (the (\lambda X1 : \\
& \quad \iota.(\neg v2_struct_0 X1)\wedge((v13_algstr_0 X1)\wedge((v2_rlvect_1 X1)\wedge \\
& \quad ((v3_rlvect_1 X1)\wedge((v4_rlvect_1 X1)\wedge((v2_clvect_1 X1)\wedge((v3_clvect_1 \\
& X1)\wedge((v4_clvect_1 X1)\wedge((v5_clvect_1 X1)\wedge(l1_clvect_1 X1))))))))))\Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \\
& \quad \iota.(\neg v2_struct_0 X2)\wedge((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge \\
& \quad ((v3_rlvect_1 X2)\wedge((v4_rlvect_1 X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 \\
& X2)\wedge((v4_clvect_1 X2)\wedge((v5_clvect_1 X2)\wedge(l1_clvect_1 X2))))))))))\Rightarrow \\
& \quad (k3_funct_2 (k2_zfmisc_1 (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \\
& \quad \iota.(\neg v2_struct_0 X2)\wedge((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge \\
& \quad ((v3_rlvect_1 X2)\wedge((v4_rlvect_1 X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 \\
& X2)\wedge((v4_clvect_1 X2)\wedge((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \iota.(\neg v2_struct_0 X2)\wedge \\
& ((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge((v3_rlvect_1 X2)\wedge((v4_rlvect_1 \\
& X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 X2)\wedge((v4_clvect_1 X2)\wedge \\
& ((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) k2_numbers \\
& c2_csspace (k1_domain_1 (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \\
& \quad \iota.(\neg v2_struct_0 X2)\wedge((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge \\
& \quad ((v3_rlvect_1 X2)\wedge((v4_rlvect_1 X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 \\
& X2)\wedge((v4_clvect_1 X2)\wedge((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \iota.(\neg v2_struct_0 X2)\wedge \\
& ((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge((v3_rlvect_1 X2)\wedge((v4_rlvect_1 \\
& X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 X2)\wedge((v4_clvect_1 X2)\wedge \\
& ((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) X0 X1) = k15_complex1 \\
& \quad (k3_funct_2 (k2_zfmisc_1 (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \\
& \quad \iota.(\neg v2_struct_0 X2)\wedge((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge \\
& \quad ((v3_rlvect_1 X2)\wedge((v4_rlvect_1 X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 \\
& X2)\wedge((v4_clvect_1 X2)\wedge((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \iota.(\neg v2_struct_0 X2)\wedge \\
& ((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge((v3_rlvect_1 X2)\wedge((v4_rlvect_1 \\
& X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 X2)\wedge((v4_clvect_1 X2)\wedge \\
& ((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) k2_numbers \\
& c2_csspace (k1_domain_1 (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \\
& \quad \iota.(\neg v2_struct_0 X2)\wedge((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge \\
& \quad ((v3_rlvect_1 X2)\wedge((v4_rlvect_1 X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 \\
& X2)\wedge((v4_clvect_1 X2)\wedge((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k3_clvect_1 (the (\lambda X2 : \iota.(\neg v2_struct_0 X2)\wedge \\
& ((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge((v3_rlvect_1 X2)\wedge((v4_rlvect_1 \\
& X2)\wedge((v2_clvect_1 X2)\wedge((v3_clvect_1 X2)\wedge((v4_clvect_1 X2)\wedge \\
& ((v5_clvect_1 X2)\wedge(l1_clvect_1 X2)))))))))) X1 X0)))
\end{aligned}$$