

l6_bhsp_1 (TMVZvkpge-
BAsRM7RpZAgtXQT9dCYAmUkTYC)

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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 $k1_rsub_1 : \iota \Rightarrow \iota$ 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 $v5_rlvect_1 : \iota \Rightarrow o$ 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 $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $c2_bhsp_1 : \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be

given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& (\forall X0.(m1_subset_1 X0 (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X1)\wedge((v6_rlvect_1 \\
& \quad X1)\wedge((v7_rlvect_1 X1)\wedge((v8_rlvect_1 X1)\wedge(l1_rlvect_1 X1))))))))))\Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 \\
& \quad X2)\wedge((v7_rlvect_1 X2)\wedge((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2))))))))))\Rightarrow \\
& \quad (k3_funct_2 (k2_zfmisc_1 (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 \\
& \quad X2)\wedge((v7_rlvect_1 X2)\wedge((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k1_rsub_1 (the (\lambda X2 : \iota.(\neg v2_struct_0 X2)\wedge \\
& \quad ((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge((v3_rlvect_1 X2)\wedge((v4_rlvect_1 \\
& \quad X2)\wedge((v5_rlvect_1 X2)\wedge((v6_rlvect_1 X2)\wedge((v7_rlvect_1 X2)\wedge \\
& \quad ((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2))))))))))))) k1_numbers \\
& \quad c2_bhsp_1 (k1_domain_1 (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 \\
& \quad X2)\wedge((v7_rlvect_1 X2)\wedge((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k1_rsub_1 (the (\lambda X2 : \iota.(\neg v2_struct_0 X2)\wedge \\
& \quad ((v13_algstr_0 X2)\wedge((v2_rlvect_1 X2)\wedge((v3_rlvect_1 X2)\wedge((v4_rlvect_1 \\
& \quad X2)\wedge((v5_rlvect_1 X2)\wedge((v6_rlvect_1 X2)\wedge((v7_rlvect_1 X2)\wedge \\
& \quad ((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2))))))))))))) X0 X1) = k6_numbers)))\wedge \\
& \quad (k4_struct_0 (the (\lambda X0 : \iota.(\neg v2_struct_0 X0)\wedge((v13_algstr_0 \\
& \quad X0)\wedge((v2_rlvect_1 X0)\wedge((v3_rlvect_1 X0)\wedge((v4_rlvect_1 X0)\wedge \\
& \quad ((v5_rlvect_1 X0)\wedge((v6_rlvect_1 X0)\wedge((v7_rlvect_1 X0)\wedge((v8_rlvect_1 \\
& \quad X0)\wedge(l1_rlvect_1 X0)))))))))) \in u1_struct_0 (k1_rsub_1 (the \\
& \quad (\lambda X0 : \iota.(\neg v2_struct_0 X0)\wedge((v13_algstr_0 X0)\wedge((v2_rlvect_1 \\
& \quad X0)\wedge((v3_rlvect_1 X0)\wedge((v4_rlvect_1 X0)\wedge((v5_rlvect_1 X0)\wedge \\
& \quad ((v6_rlvect_1 X0)\wedge((v7_rlvect_1 X0)\wedge((v8_rlvect_1 X0)\wedge(l1_rlvect_1 \\
& \quad X0)))))))))))))
\end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X1)\wedge((v6_rlvect_1 \\
& X1)\wedge((v7_rlvect_1 X1)\wedge((v8_rlvect_1 X1)\wedge(l1_rlvect_1 X1))))))))))\Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 \\
& X2)\wedge((v7_rlvect_1 X2)\wedge((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2))))))))))\Rightarrow \\
& \quad (k3_funct_2 (k2_zfmisc_1 (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 \\
& X2)\wedge((v7_rlvect_1 X2)\wedge((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 X2)\wedge((v7_rlvect_1 X2)\wedge \\
& ((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2)))))))))) k1_numbers \\
& c2_bhsp_1 (k1_domain_1 (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 \\
& X2)\wedge((v7_rlvect_1 X2)\wedge((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2)))))))))) \\
& \quad (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 X2)\wedge((v7_rlvect_1 X2)\wedge \\
& ((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2)))))))))) X0 X1) = k3_funct_2 \\
& (k2_zfmisc_1 (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 X2)\wedge((v7_rlvect_1 \\
& X2)\wedge((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2)))))))))) (u1_struct_0 \\
& (k1_rsub_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 \\
& ((v5_rlvect_1 X2)\wedge((v6_rlvect_1 X2)\wedge((v7_rlvect_1 X2)\wedge((v8_rlvect_1 \\
& X2)\wedge(l1_rlvect_1 X2)))))))))) k1_numbers c2_bhsp_1 (k1_domain_1 \\
& (u1_struct_0 (k1_rsub_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((v5_rlvect_1 X2)\wedge((v6_rlvect_1 X2)\wedge((v7_rlvect_1 X2)\wedge \\
& ((v8_rlvect_1 X2)\wedge(l1_rlvect_1 X2)))))))))) (u1_struct_0 \\
& (k1_rsub_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 \\
& ((v5_rlvect_1 X2)\wedge((v6_rlvect_1 X2)\wedge((v7_rlvect_1 X2)\wedge((v8_rlvect_1 \\
& X2)\wedge(l1_rlvect_1 X2)))))))))) X1 X0)))
\end{aligned}$$