

l13_afvect01

(TMN3BhxWSJdkVthEKveo8iTpLGZ8mtsVaE6)

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Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct.0 : \iota \Rightarrow \iota$ be given. Let $v7_struct.0 : \iota \Rightarrow o$ be given. Let $v1_afvect0 : \iota \Rightarrow o$ be given. Let $l1_analoaf : \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_diraf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0 : \iota \Rightarrow \iota \Rightarrow o. \forall X1. \forall X2. \exists X3. (m1_subset.1 \\ & X3 (k1_zfmisc.1 (k2_zfmisc.1 X2 X1))) \wedge (\forall X4. \forall X5. \\ & (k4_tarski X4 X5 \in X3) \Leftrightarrow ((X4 \in X2) \wedge ((X5 \in X1) \wedge (X0 X4 X5)))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \exists X0. (m1_subset.1 X0 (k1_zfmisc.1 (k2_zfmisc.1 (k2_zfmisc.1 \\ & (u1_struct.0 (the (\lambda X1 : \iota. (\neg v7_struct.0 X1) \wedge ((v1_afvect0 \\ & X1) \wedge (l1_analoaf X1)))))) (u1_struct.0 (the (\lambda X1 : \iota. (\neg v7_struct.0 \\ & X1) \wedge ((v1_afvect0 X1) \wedge (l1_analoaf X1)))))) (k2_zfmisc.1 (u1_struct.0 \\ & (the (\lambda X1 : \iota. (\neg v7_struct.0 X1) \wedge ((v1_afvect0 X1) \wedge (l1_analoaf \\ & X1)))))) (u1_struct.0 (the (\lambda X1 : \iota. (\neg v7_struct.0 X1) \wedge ((v1_afvect0 \\ & X1) \wedge (l1_analoaf X1))))))))) \wedge (\forall X1. \forall X2. (k4_tarski \\ & X1 X2 \in X0) \Leftrightarrow ((X1 \in k2_zfmisc.1 (u1_struct.0 (the (\lambda X3 : \iota. (\neg \\ & v7_struct.0 X3) \wedge ((v1_afvect0 X3) \wedge (l1_analoaf X3)))))) (u1_struct.0 \\ & (the (\lambda X3 : \iota. (\neg v7_struct.0 X3) \wedge ((v1_afvect0 X3) \wedge (l1_analoaf \\ & X3)))))) \wedge ((X2 \in k2_zfmisc.1 (u1_struct.0 (the (\lambda X3 : \iota. (\neg \\ & v7_struct.0 X3) \wedge ((v1_afvect0 X3) \wedge (l1_analoaf X3)))))) (u1_struct.0 \\ & (the (\lambda X3 : \iota. (\neg v7_struct.0 X3) \wedge ((v1_afvect0 X3) \wedge (l1_analoaf \\ & X3)))))) \wedge (\exists X3. (m1_subset.1 X3 (u1_struct.0 (the (\lambda X4 : \\ & \iota. (\neg v7_struct.0 X4) \wedge ((v1_afvect0 X4) \wedge (l1_analoaf X4)))))) \wedge \\ & (\exists X4. (m1_subset.1 X4 (u1_struct.0 (the (\lambda X5 : \iota. (\neg \\ & v7_struct.0 X5) \wedge ((v1_afvect0 X5) \wedge (l1_analoaf X5)))))) \wedge (\exists X5. \\ & (m1_subset.1 X5 (u1_struct.0 (the (\lambda X6 : \iota. (\neg v7_struct.0 \\ & X6) \wedge ((v1_afvect0 X6) \wedge (l1_analoaf X6)))))) \wedge (\exists X6. (m1_subset.1 \\ & X6 (u1_struct.0 (the (\lambda X7 : \iota. (\neg v7_struct.0 X7) \wedge ((v1_afvect0 \\ & X7) \wedge (l1_analoaf X7)))))) \wedge ((X1 = k4_tarski X3 X4) \wedge ((X2 = k4_tarski \\ & X5 X6) \wedge (r2_diraf (the (\lambda X7 : \iota. (\neg v7_struct.0 X7) \wedge ((v1_afvect0 \\ & X7) \wedge (l1_analoaf X7)))) X3 X4 X5 X6)))))))))) \end{aligned}$$