

t16_genealg1

(TMF5Y8x56zBWQL6dL1ewPTxjEpYhDs1TXoc)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v2_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $m1_genealg1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_genealg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k7_genealg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_genealg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.((\neg v1_xboole_0 \\ & X1) \wedge ((v1_relat_1 X1) \wedge (v2_relat_1 X1) \wedge (v1_funct_1 X1) \wedge (v1_finseq_1 \\ & X1)))) \Rightarrow (\forall X2.(m1_genealg1 X2 X1) \Rightarrow (\forall X3.(m1_genealg1 \\ & X3 X1) \Rightarrow (k8_genealg1 X1 X2 X3 X0 k6_numbers = k7_genealg1 X1 X3 X2 X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.((\neg v1_xboole_0 \\ & X1) \wedge ((v1_relat_1 X1) \wedge (v2_relat_1 X1) \wedge (v1_funct_1 X1) \wedge (v1_finseq_1 \\ & X1)))) \Rightarrow (\forall X2.(m1_genealg1 X2 X1) \Rightarrow (\forall X3.(m1_genealg1 \\ & X3 X1) \Rightarrow (k8_genealg1 X1 X2 X3 k6_numbers X0 = k7_genealg1 X1 X3 X2 X0))) \end{aligned} \tag{2}$$

Assume the following.

$$m1_subset_1 k1_xboole_0 k4_ordinal1 \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k5_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. \\ & ((\neg v1_xboole_0 X3) \wedge ((v1_relat_1 X3) \wedge ((v2_relat_1 X3) \wedge ((v1_funct_1 \\ & X3) \wedge (v1_finseq_1 X3)))))) \Rightarrow (\forall X4.(m1_genealg1 X4 X3) \Rightarrow (\forall X5. \\ & (m1_genealg1 X5 X3) \Rightarrow ((k9_genealg1 X3 X4 X5 k6_numbers X0 X1 = k8_genealg1 \\ & X3 X5 X4 X0 X1) \wedge ((k9_genealg1 X3 X4 X5 X2 k6_numbers X1 = k8_genealg1 \\ & X3 X5 X4 X2 X1) \wedge (k9_genealg1 X3 X4 X5 X2 X0 k6_numbers = k8_genealg1 \\ & X3 X5 X4 X2 X0)))))) \end{aligned} \tag{4}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (5)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k5_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. \\ & ((\neg v1_xboole_0 X3) \wedge ((v1_relat_1 X3) \wedge ((v2_relat_1 X3) \wedge ((v1_funct_1 \\ & X3) \wedge (v1_finseq_1 X3)))))) \Rightarrow (\forall X4.(m1_genealg1 X4 X3) \Rightarrow (\forall X5. \\ & (m1_genealg1 X5 X3) \Rightarrow ((k9_genealg1 X3 X4 X5 k6_numbers k6_numbers \\ & X0 = k7_genealg1 X3 X4 X5 X0) \wedge ((k9_genealg1 X3 X4 X5 X1 k6_numbers \\ & k6_numbers = k7_genealg1 X3 X4 X5 X1) \wedge (k9_genealg1 X3 X4 X5 k6_numbers \\ & X2 k6_numbers = k7_genealg1 X3 X4 X5 X2))))))))) \end{aligned}$$