

t17_genealg1

(TMLtLa3KJp9V7JfcC22RzRZPryJQVeH8in7)

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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 $k7_genealg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k5_numbers : \iota$ be given. Assume the following.

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

Assume the following.

$$m1_subset_1 k1_xboole_0 k4_ordinal1 \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1. (m1_subset_1 \\ X1 k5_numbers) \Rightarrow (\forall X2. (m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. \\ ((\neg v1_xboole_0 X3) \wedge ((v1_relat_1 X3) \wedge ((v2_relat_1 X3) \wedge ((v1_funct_1 \\ X3) \wedge (v1_finseq_1 X3)))))) \Rightarrow (\forall X4. (m1_genealg1 X4 X3) \Rightarrow (\forall X5. \\ (m1_genealg1 X5 X3) \Rightarrow ((k9_genealg1 X3 X4 X5 k6_numbers k6_numbers \\ X0 = k7_genealg1 X3 X4 X5 X0) \wedge ((k9_genealg1 X3 X4 X5 X1 k6_numbers \\ k6_numbers = k7_genealg1 X3 X4 X5 X1) \wedge (k9_genealg1 X3 X4 X5 k6_numbers \\ X2 k6_numbers = k7_genealg1 X3 X4 X5 X2)))))))))) \end{aligned} \tag{3}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{4}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{5}$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0) \wedge ((v1_relat_1 X0) \wedge ((v2_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))))) \Rightarrow (\forall X1.(m1_genealg1 X1 X0) \Rightarrow (\forall X2.(m1_genealg1 X2 X0) \Rightarrow (k9_genealg1 X0 X1 X2 k6_numbers k6_numbers k6_numbers = X2)))$$