t39_genealg1 (TMbiPmcP-nYY61g6zUrW4AK3z4MACercvv27)

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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 $k10\_genealg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_genealg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k5\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_numbers) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ k5\_numbers) \Rightarrow (\forall X4.((\neg v1\_xboole\_0\ X4) \wedge ((v1\_relat\_1\ X4) \wedge ((v2\_relat\_1\ X4) \wedge ((v1\_funct\_1\ X4) \wedge (v1\_finseq\_1\ X4))))) \Rightarrow (\forall X5.(m1\_genealg1\ X5\ X4) \Rightarrow (\forall X6.(m1\_genealg1\ X6\ X4) \Rightarrow ((k10\_genealg1\ X4\ X5\ X6\ X0\ X0\ X1\ X2 = k8\_genealg1\ X4\ X5\ X6\ X1\ X2) \wedge ((k10\_genealg1\ X4\ X5\ X6\ X0\ X3\ X0\ X2 = k8\_genealg1\ X4\ X5\ X6\ X3\ X2) \wedge ((k10\_genealg1\ X4\ X5\ X6\ X0\ X3\ X1\ X0 = k8\_genealg1\ X4\ X5\ X6\ X3\ X1) \wedge ((k10\_genealg1\ X4\ X5\ X6\ X0\ X3\ X3\ X2 = k8\_genealg1\ X4\ X5\ X6\ X0\ X2) \wedge ((k10\_genealg1\ X4\ X5\ X6\ X0\ X3\ X1\ X3 = k8\_genealg1\ X4\ X5\ X6\ X0\ X1) \wedge (k10\_genealg1\ X4\ X5\ X6\ X0\ X3\ X1\ X1 = k8\_genealg1\ X4\ X5\ X6\ X0\ X3)))))))))))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge ((v1\_relat\_1\ X1) \wedge ((v2\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_finseq\_1\ X1))))) \Rightarrow (\forall X2.(m1\_genealg1\ X2\ X1) \Rightarrow (\forall X3.(m1\_genealg1\ X3\ X1) \Rightarrow (k8\_genealg1\ X1\ X2\ X3\ X0\ X0 = X2)))) \tag{2}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k5\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_numbers) \Rightarrow (\forall X3.((\neg v1\_xboole\_0\ X3) \wedge ((v1\_relat\_1\ X3) \wedge ((v2\_relat\_1\ X3) \wedge ((v1\_funct\_1\ X3) \wedge (v1\_finseq\_1\ X3))))) \Rightarrow (\forall X4.(m1\_genealg1\ X4\ X3) \Rightarrow (\forall X5.(m1\_genealg1\ X5\ X3) \Rightarrow ((k10\_genealg1\ X3\ X4\ X5\ X0\ X0\ X1\ X1 = X4) \wedge ((k10\_genealg1\ X3\ X4\ X5\ X0\ X2\ X0\ X2 = X4) \wedge (k10\_genealg1\ X3\ X4\ X5\ X0\ X2\ X2\ X0 = X4)))))))))$$