t30_genealg1 (TMTc1LriFP96pREhS9ScU8mSCnuVPbQ6vN6)

October 27, 2020

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 $k10\_genealg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k8\_genealg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_genealg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k5\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_numbers) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ k5\_numbers) \Rightarrow (\forall X4.((\neg v1\_xboole\_0\ X4) \wedge ((v1\_relat\_1\ X4) \wedge ((v2\_relat\_1\ X4) \wedge ((v1\_funct\_1\ X4) \wedge (v1\_finseq\_1\ X4)))))) \Rightarrow (\forall X5.(m1\_genealg1\ X5\ X4) \Rightarrow (\forall X6.(m1\_genealg1\ X6\ X4) \Rightarrow ((k10\_genealg1\ X4\ X5\ X6\ k6\_numbers\ X0\ X1\ X2 = k9\_genealg1\ X4\ X6\ X5\ X0\ X1\ X2) \wedge ((k10\_genealg1\ X4\ X5\ X6\ X3\ k6\_numbers\ X1\ X2 = k9\_genealg1\ X4\ X6\ X5\ X3\ X1\ X2) \wedge ((k10\_genealg1\ X4\ X5\ X6\ X3\ X0\ k6\_numbers\ X2 = k9\_genealg1\ X4\ X6\ X5\ X3\ X0\ X2) \wedge (k10\_genealg1\ X4\ X5\ X6\ X3\ X0\ X1\ k6\_numbers = k9\_genealg1\ X4\ X6\ X5\ X3\ X0\ X1)))))))))) \tag{1}$$

Assume the following.

$$m1\_subset\_1\ k1\_xboole\_0\ k4\_ordinal1 \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k5\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_numbers) \Rightarrow (\forall X3.((\neg v1\_xboole\_0\ X3) \wedge ((v1\_relat\_1\ X3) \wedge ((v2\_relat\_1\ X3) \wedge ((v1\_funct\_1\ X3) \wedge (v1\_finseq\_1\ X3)))))) \Rightarrow (\forall X4.(m1\_genealg1\ X4\ X3) \Rightarrow (\forall X5.(m1\_genealg1\ X5\ X3) \Rightarrow ((k9\_genealg1\ X3\ X4\ X5\ k6\_numbers\ X0\ X1 = k8\_genealg1\ X3\ X5\ X4\ X0\ X1) \wedge ((k9\_genealg1\ X3\ X4\ X5\ X2\ k6\_numbers\ X1 = k8\_genealg1\ X3\ X5\ X4\ X2\ X1) \wedge (k9\_genealg1\ X3\ X4\ X5\ X2\ X0\ k6\_numbers = k8\_genealg1\ X3\ X5\ X4\ X2\ X0)))))))) \tag{3}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{4}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{5}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k5\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_numbers) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ k5\_numbers) \Rightarrow (\forall X4.((\neg v1\_xboole\_0\ X4) \wedge ((v1\_relat\_1\ X4) \wedge ((v2\_relat\_1\ X4) \wedge ((v1\_funct\_1\ X4) \wedge (v1\_finseq\_1\ X4))))) \Rightarrow (\forall X5.(m1\_genealg1\ X5\ X4) \Rightarrow (\forall X6.(m1\_genealg1\ X6\ X4) \Rightarrow ((k10\_genealg1\ X4\ X5\ X6\ k6\_numbers\ k6\_numbers\ X0\ X1 = k8\_genealg1\ X4\ X5\ X6\ X0\ X1) \wedge ((k10\_genealg1\ X4\ X5\ X6\ k6\_numbers\ X2\ k6\_numbers\ X1 = k8\_genealg1\ X4\ X5\ X6\ X2\ X1) \wedge ((k10\_genealg1\ X4\ X5\ X6\ k6\_numbers\ X2\ X0\ k6\_numbers = k8\_genealg1\ X4\ X5\ X6\ X2\ X0) \wedge ((k10\_genealg1\ X4\ X5\ X6\ X3\ k6\_numbers\ X0\ k6\_numbers = k8\_genealg1\ X4\ X5\ X6\ X3\ X0) \wedge ((k10\_genealg1\ X4\ X5\ X6\ X3\ k6\_numbers\ k6\_numbers\ X1 = k8\_genealg1\ X4\ X5\ X6\ X3\ X1) \wedge (k10\_genealg1\ X4\ X5\ X6\ X3\ X2\ k6\_numbers\ k6\_numbers = k8\_genealg1\ X4\ X5\ X6\ X3\ X2)))))))))))$$