

## t16\_radix\_6

(TMH2pfS8xJeggfmqQvFkENYjfwFxSZNZ9o3)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v3\_card\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_radix\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k8\_radix\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_radix\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_radix\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_radix\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow (( \\ r1\_xxreal\_0 np\_2 X1) \Rightarrow (\forall X2.((v3\_card\_1 X2 (k2\_xcmplx\_0 \\ X0 np\_2)) \wedge (m2\_finseq\_1 X2 (k3\_radix\_1 X1))) \Rightarrow (r1\_xxreal\_0 (k8\_radix\_1 \\ (k2\_xcmplx\_0 X0 np\_2) X1 (k6\_radix\_6 X0 X1 X2)) (k8\_radix\_1 (k2\_xcmplx\_0 \\ X0 np\_2) X1 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow (( \\ r1\_xxreal\_0 np\_2 X1) \Rightarrow (\forall X2.((v3\_card\_1 X2 (k2\_xcmplx\_0 \\ X0 np\_2)) \wedge (m2\_finseq\_1 X2 (k3\_radix\_1 X1))) \Rightarrow (r1\_xxreal\_0 (k8\_radix\_1 \\ (k2\_xcmplx\_0 X0 np\_2) X1 X2) (k8\_radix\_1 (k2\_xcmplx\_0 X0 np\_2) \\ X1 (k4\_radix\_6 X0 X1 X2)))))) \end{aligned} \tag{2}$$

### Theorem 1

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow (\forall X2. \\ ((v3\_card\_1 X2 (k2\_xcmplx\_0 X0 np\_2)) \wedge (m2\_finseq\_1 X2 (k3\_radix\_1 \\ X1))) \Rightarrow (\neg(r1\_xxreal\_0 np\_2 X1) \wedge (\neg(r1\_xxreal\_0 (k8\_radix\_1 \\ (k2\_xcmplx\_0 X0 np\_2) X1 (k2\_radix\_6 X0 X1 X2)) (k8\_radix\_1 (k2\_xcmplx\_0 \\ X0 np\_2) X1 X2)) \wedge (r1\_xxreal\_0 (k8\_radix\_1 (k2\_xcmplx\_0 X0 np\_2) \\ X1 X2) (k8\_radix\_1 (k2\_xcmplx\_0 X0 np\_2) X1 (k4\_radix\_6 X0 X1 X2)))))) \wedge \\ (\neg(r1\_xxreal\_0 (k8\_radix\_1 (k2\_xcmplx\_0 X0 np\_2) X1 (k6\_radix\_6 \\ X0 X1 X2)) (k8\_radix\_1 (k2\_xcmplx\_0 X0 np\_2) X1 X2)) \wedge (\neg r1\_xxreal\_0 \\ (k8\_radix\_1 (k2\_xcmplx\_0 X0 np\_2) X1 (k2\_radix\_6 X0 X1 X2)) (k8\_radix\_1 \\ (k2\_xcmplx\_0 X0 np\_2) X1 X2)))))) \end{aligned}$$