

t19\_radix\_1 (TMQJhaCkN-  
NaSvLeNN5W1xkHQGo8DekvzsPw)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k12\_radix\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k11\_radix\_1 : \iota \Rightarrow \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $np\_2 : \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $v6\_membered : \iota \Rightarrow o$  be given. Let  $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_radix\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $v5\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k6\_xcmplx\_0 X0 \ k6\_numbers = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k3\_xcmplx\_0 X0 \ k6\_numbers = k6\_numbers) \quad (3)$$

Assume the following.

$$k11\_radix\_1 \ k6\_numbers = k6\_numbers \quad (4)$$

Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 \ np\_2) \wedge (m2\_subset\_1 \ np\_2 \ k1\_numbers \ k5\_numbers)) \wedge \\ & ((m1\_subset\_1 \ np\_2 \ k5\_numbers) \wedge (m1\_subset\_1 \ np\_2 \ k1\_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & (m2\_subset\_1 \ np\_0 \ k1\_numbers \ k5\_numbers) \wedge ((m1\_subset\_1 \ np\_0 \\ & \quad k5\_numbers) \wedge (m1\_subset\_1 \ np\_0 \ k1\_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$v1\_xboole\_0 \text{ np\_}0 \quad (7)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (8)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (9)$$

Assume the following.

$$\exists X0.(v1\_xboole\_0 X0) \wedge ((v1\_xcmplx\_0 X0) \wedge ((v1\_xreal\_0 X0) \wedge (v1\_xreal\_0 X0))) \quad (10)$$

Assume the following.

$$v6\_membered \ k4\_ordinal1 \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0) \wedge (v1\_xreal\_0 X1)) \Rightarrow (v1\_xreal\_0 (k3\_power \ X0 \ X1)) \quad (12)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 \ X0) \Rightarrow (k1\_radix\_1 \ X0 = k3\_power \ np\_2 \ X0) \quad (13)$$

Assume the following.

$$\forall X0.(v1\_int\_1 \ X0) \Rightarrow (\forall X1.(v7\_ordinal1 \ X1) \Rightarrow (k12\_radix\_1 \ X0 \ X1 = k6\_xcmplx\_0 \ X0 \ (k3\_xcmplx\_0 \ (k11\_radix\_1 \ X0) \ (k1\_radix\_1 \ X1)))) \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0 \ X0) \wedge (v1\_xcmplx\_0 \ X1)) \Rightarrow (k3\_xcmplx\_0 \ X0 \ X1 = k3\_xcmplx\_0 \ X1 \ X0) \quad (15)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 \ X0) \Rightarrow (v1\_xcmplx\_0 \ X0) \quad (16)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 \ X0) \Rightarrow (v1\_xreal\_0 \ X0) \quad (17)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k1\_numbers) \Rightarrow (v1\_xreal\_0 \ X0) \quad (18)$$

Assume the following.

$$\forall X0.(v6\_membered\ X0)\Rightarrow(v5\_membered\ X0) \quad (19)$$

Assume the following.

$$\forall X0.(v5\_membered\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ X0)\Rightarrow(v1\_int\_1\ X1)) \quad (20)$$

**Theorem 1**  $\forall X0.(v7\_ordinal1\ X0)\Rightarrow(k12\_radix\_1\ k6\_numbers\ X0 = k6\_numbers)$ .