l2_radix_4 (TMVdGh4MEnxr46GVxGvmnZW1pSNCHA4yK3E)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k3\_radix\_3 : \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_radix\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_nat\_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_radix\_3 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (k3\_radix\_3\ X0 = k1\_radix\_3\ X0) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (k1\_radix\_3\ X0 = ReplSep\ (toset\ (\lambda X1 : \iota.m1\_subset\_1\ X1\ k4\_numbers))\ (\lambda X1 : \iota.(r1\_xxreal\_0\ (k4\_xcmplx\_0\ (k1\_radix\_1\ (k7\_nat\_d\ X0\ np\_\_1)))\ X1) \wedge (r1\_xxreal\_0\ X1\ (k6\_xcmplx\_0\ (k1\_radix\_1\ (k7\_nat\_d\ X0\ np\_\_1))\ np\_\_1)))\ (\lambda X1 : \iota.X1)) \tag{2}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow ((X1 \in k3\_radix\_3\ X0) \Rightarrow ((r1\_xxreal\_0\ (k4\_xcmplx\_0\ (k1\_radix\_1\ (k7\_nat\_d\ X0\ np\_\_1)))\ X1) \wedge (r1\_xxreal\_0\ X1\ (k6\_xcmplx\_0\ (k1\_radix\_1\ (k7\_nat\_d\ X0\ np\_\_1))\ np\_\_1)))))$$