

l95_newton
(TMGKNhg3h6gqBwb8pTT4FZPZJfXkXgzJDQL)

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Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k21_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k6_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ 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 $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k19_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$k21_rvsum_1 (k6_finseq_1 k1_numbers) = np_1 \quad (1)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (2)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (5)$$

Assume the following.

$$k2_xcmplx_0 np_0 np_1 = np_1 \quad (6)$$

Assume the following.

$$r1_xreal_0 \ np_1 \ np_1 \tag{7}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{8}$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 \ X0 \ k1_numbers) \wedge (v7_ordinal1 \ X1)) \Rightarrow (k2_newton \ X0 \ X1 = k1_newton \ X0 \ X1) \tag{9}$$

Assume the following.

$$\forall X0. (m1_finseq_1 \ X0 \ k1_numbers) \Rightarrow (k21_rvsum_1 \ X0 = k19_rvsum_1 \ X0) \tag{10}$$

Assume the following.

$$\forall X0. \forall X1. ((v7_ordinal1 \ X0) \wedge (m1_subset_1 \ X1 \ k5_numbers)) \Rightarrow (k1_nat_1 \ X0 \ X1 = k2_xcplx_0 \ X0 \ X1) \tag{11}$$

Assume the following.

$$\forall X0. \exists X1. (m1_finseq_1 \ X1 \ X0) \wedge ((v1_relat_1 \ X1) \wedge (v4_relat_1 \ X1 \ k5_numbers) \wedge ((v5_relat_1 \ X1 \ X0) \wedge ((v1_funct_1 \ X1) \wedge ((v1_xboole_0 \ X1) \wedge ((v1_finset_1 \ X1) \wedge (v1_finseq_1 \ X1)))))) \tag{12}$$

Assume the following.

$$\forall X0. \forall X1. (v7_ordinal1 \ X0) \Rightarrow ((v1_relat_1 \ (k2_finseq_2 \ X0 \ X1)) \wedge ((v1_funct_1 \ (k2_finseq_2 \ X0 \ X1)) \wedge ((v3_card_1 \ (k2_finseq_2 \ X0 \ X1) \ X0) \wedge (v1_finseq_1 \ (k2_finseq_2 \ X0 \ X1)))))) \tag{13}$$

Assume the following.

$$\forall X0. k6_finseq_1 \ X0 = k1_xboole_0 \tag{14}$$

Assume the following.

$$\forall X0. (v1_xcplx_0 \ X0) \Rightarrow (\forall X1. (v7_ordinal1 \ X1) \Rightarrow (k1_newton \ X0 \ X1 = k19_rvsum_1 \ (k2_finseq_2 \ X1 \ X0))) \tag{15}$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (v7_ordinal1 \ X0) \tag{16}$$

Assume the following.

$$\forall X0. (v3_card_1 \ X0 \ k1_xboole_0) \Rightarrow (v1_xboole_0 \ X0) \tag{17}$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (v1_xcplx_0 \ X0) \tag{18}$$

Theorem 1 $r1_xreal_0 \ (k1_nat_1 \ k6_numbers \ np_1) \ (k2_newton \ np_2 \ k6_numbers)$.