

t6_int_7

(TMR9eSB5Fq4CSdDSdakWEqLXsfBjVgfa6sU)

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Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_newton : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_valued_0 : \iota \Rightarrow o$ be given. Let $v2_pre_poly : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int_2 : \iota \Rightarrow o$ be given. Let $v1_int_7 : \iota \Rightarrow o$ be given. Let $r1_int_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_nat_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_wsierp_1 : \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_uproots : \iota \Rightarrow \iota$ be given. Let $k1_polynom2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1. (m2_finseq_1 \\ & X1 k5_numbers) \Rightarrow (\forall X2. ((v1_relat_1 X2) \wedge ((v4_relat_1 X2 \\ & k10_newton) \wedge ((v1_funct_1 X2) \wedge ((v1_partfun1 X2 k10_newton) \wedge \\ & ((v4_valued_0 X2) \wedge (v2_pre_poly X2)))))) \Rightarrow (\forall X3. ((v7_ordinal1 \\ & X3) \wedge (v1_int_2 X3)) \Rightarrow (((k3_finseq_1 X1 = X0) \wedge ((v1_int_7 X2) \wedge ((\\ & r1_int_1 X3 (k8_nat_3 k10_newton X2)) \wedge ((k8_nat_3 k10_newton X2 = \\ & k3_wsierp_1 X1) \wedge (X1 = k3_relat_1 (k1_uproots (k1_polynom2 k10_newton \\ & X2)) X2)))) \Rightarrow ((k8_nat_3 k10_newton X2 = np_1) \vee (X3 \in k1_polynom2 \\ & k10_newton X2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$(\neg v1_xboole_0 \ k4_ordinal1) \wedge (v3_ordinal1 \ k4_ordinal1) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 \ X1 \ X0) \Rightarrow ((v1_funct_1 \ X1) \wedge (v1_finseq_1 \ X1) \wedge (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ k5_numbers \ X0)))) \quad (5)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. v1_relat_1 \ (k3_relat_1 \ X0 \ X1) \quad (7)$$

Assume the following.

$$\forall X0. ((v1_relat_1 \ X0) \wedge ((v1_funct_1 \ X0) \wedge (v1_finseq_1 \ X0))) \Rightarrow (m2_subset_1 \ (k3_finseq_1 \ X0) \ k1_numbers \ k5_numbers) \quad (8)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)) \Rightarrow (v1_xboole_0 \ X1)) \quad (9)$$

Theorem 1

$$\begin{aligned} & \forall X0. (m2_finseq_1 \ X0 \ k5_numbers) \Rightarrow (\forall X1. ((v1_relat_1 \ X1) \wedge ((v4_relat_1 \ X1 \ k10_newton) \wedge ((v1_funct_1 \ X1) \wedge ((v1_partfun1 \ X1 \ k10_newton) \wedge (v4_valued_0 \ X1) \wedge (v2_pre_poly \ X1)))))) \Rightarrow (\forall X2. \\ & ((v7_ordinal1 \ X2) \wedge (v1_int_2 \ X2)) \Rightarrow (((v1_int_7 \ X1) \wedge (r1_int_1 \ X2 \ (k8_nat_3 \ k10_newton \ X1)) \wedge ((k8_nat_3 \ k10_newton \ X1 = k3_wsierp_1 \ X0) \wedge (X0 = k3_relat_1 \ (k1_uproots \ (k1_polynom2 \ k10_newton \ X1)) \ X1)))) \Rightarrow ((k8_nat_3 \ k10_newton \ X1 = np_1) \vee (X2 \in k1_polynom2 \ k10_newton \ X1)))) \end{aligned}$$