

t3_irrat_1
(TMUVqR8urF2dDXQ4aSF6Ye1rgsAZijLt1ko)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_irrat_1 : \iota \Rightarrow \iota$ be given. Let $k2_irrat_1 : \iota \Rightarrow \iota$ 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 $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ 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.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (3)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (4)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v7_ordinal1 X0) \Rightarrow ((v1_funct_1 (k3_irrat_1 X0)) \wedge \\ & (v1_funct_2 (k3_irrat_1 X0) k5_numbers k1_numbers) \wedge (m1_subset_1 \\ & (k3_irrat_1 X0) (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers k1_numbers)))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow((v1_funct_1\ (k2_irrat_1\ X0))\wedge((v1_funct_2\ (k2_irrat_1\ X0)\ k5_numbers\ k1_numbers)\wedge(m1_subset_1\ (k2_irrat_1\ X0)\ (k1_zfmisc_1\ (k2_zfmisc_1\ k5_numbers\ k1_numbers))))))\quad (7)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.((v1_funct_1\ X1)\wedge((v1_funct_2\ X1\ k5_numbers\ k1_numbers)\wedge(m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ k5_numbers\ k1_numbers))))))\Rightarrow((X1 = k3_irrat_1\ X0)\Leftrightarrow(\forall X2.(m2_subset_1\ X2\ k1_numbers\ k5_numbers)\Rightarrow(k1_seq_1\ X1\ X2 = k3_xcmplx_0\ (k6_newton\ X2\ X0)\ (k3_power\ X0\ (k4_xcmplx_0\ X2))))))\quad (8)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.((v1_funct_1\ X1)\wedge((v1_funct_2\ X1\ k5_numbers\ k1_numbers)\wedge(m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ k5_numbers\ k1_numbers))))))\Rightarrow((X1 = k2_irrat_1\ X0)\Leftrightarrow(\forall X2.(m2_subset_1\ X2\ k1_numbers\ k5_numbers)\Rightarrow(k1_seq_1\ X1\ X2 = k3_xcmplx_0\ (k6_newton\ X0\ X2)\ (k3_power\ X2\ (k4_xcmplx_0\ X0))))))\quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0)\quad (10)$$

Theorem 1

$$\forall X0.(m2_subset_1\ X0\ k1_numbers\ k5_numbers)\Rightarrow(\forall X1.(m2_subset_1\ X1\ k1_numbers\ k5_numbers)\Rightarrow(k1_seq_1\ (k3_irrat_1\ X0)\ X1 = k1_seq_1\ (k2_irrat_1\ X1)\ X0))$$