

t12_rat_1

(TMSy7XJrerbQ6AMnkXL6u667q4cQjTXg4sa)

October 27, 2020

Let $v1_rat_1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_real_1 : \iota \Rightarrow \iota$ be given. Let $k1_rat_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ 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 $k1_numbers : \iota$ 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 $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $c5_xreal_0 : \iota$ be given. Let $k1_arytm_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $c3_xreal_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $c1_xreal_1 : \iota$ be given. Let $k1_xxreal_0 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (\neg(\neg r1_xxreal_0 X0 k6_numbers) \wedge ((r1_xxreal_0 \\ & X1 X2) \wedge (r1_xxreal_0 X2 (k6_xcmplx_0 X1 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow ((\neg(\neg r1_xxreal_0 X0 k6_numbers) \wedge \\ & (r1_xxreal_0 (k5_xcmplx_0 X0) k6_numbers)) \wedge (\neg(\neg r1_xxreal_0 \\ & (k5_xcmplx_0 X0) k6_numbers) \wedge (r1_xxreal_0 X0 k6_numbers))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v1_rat_1 X0) \Rightarrow (r1_xxreal_0 np_1 (k1_rat_1 X0)) \quad (3)$$

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.

$$k6_xcmplx_0 np_1 np_1 = np_0 \quad (5)$$

Assume the following.

$$k2_xcmplx_0 \text{ } np_1 (k4_xcmplx_0 \text{ } np_1) = np_0 \quad (6)$$

Assume the following.

$$\neg r1_xreal_0 \text{ } np_1 \text{ } np_0 \quad (7)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (8)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 \text{ } X0 \text{ } k1_numbers) \Rightarrow (k2_real_1 \text{ } X0 = k5_xcmplx_0 \text{ } X0) \quad (10)$$

Assume the following.

$$(c5_xreal_0 = k4_xcmplx_0 \text{ } np_1) \wedge (k1_arytm_0 \text{ } c3_xreal_0 \text{ } c5_xreal_0 = k6_numbers) \quad (11)$$

Assume the following.

$$k2_xcmplx_0 \text{ } np_1 (k4_xcmplx_0 \text{ } np_1) = k6_numbers \quad (12)$$

Assume the following.

$$(\neg v1_xboole_0 \text{ } k4_ordinal1) \wedge (v3_ordinal1 \text{ } k4_ordinal1) \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 \text{ } X0) \wedge ((\neg v1_xboole_0 \text{ } X1) \wedge (m1_subset_1 \text{ } X1 \text{ } (k1_zfmisc_1 \text{ } X0)))) \Rightarrow (\forall X2.(m2_subset_1 \text{ } X2 \text{ } X0 \text{ } X1) \Rightarrow (m1_subset_1 \text{ } X2 \text{ } X0)) \quad (14)$$

Assume the following.

$$m1_subset_1 \text{ } k5_numbers \text{ } (k1_zfmisc_1 \text{ } k1_numbers) \quad (15)$$

Assume the following.

$$\forall X0.(v1_rat_1 \text{ } X0) \Rightarrow (m2_subset_1 \text{ } (k1_rat_1 \text{ } X0) \text{ } k1_numbers \text{ } k5_numbers) \quad (16)$$

Assume the following.

$$c1_xreal_1 = k6_numbers \quad (17)$$

Assume the following.

$$k1_xreal_0 = k1_numbers \quad (18)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (v1_xboole_0 X1)) \quad (19)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (20)$$

Theorem 1

$$\forall X0.(v1_rat_1 X0) \Rightarrow (\neg r1_xreal_0 (k2_real_1 (k1_rat_1 X0)) k6_numbers)$$