

t1_rat_1 (TMQMhD- KQSfFMFMfnX2uox4JUtMbd6H5Pxa7)

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Let $k3_numbers : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k4_numbers : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k7_xcmplx_0 k6_numbers X0 = k6_numbers) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k7_xcmplx_0 X0 k6_numbers = k6_numbers) \quad (2)$$

Assume the following.

$$k4_numbers \neq k3_numbers \quad (3)$$

Assume the following.

$$\exists X0.v1_int_1 X0 \quad (4)$$

Assume the following.

$$\forall X0. \neg (X0 \in k3_numbers) \wedge (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2.(v1_int_1 X2) \Rightarrow (X0 \neq k7_xcmplx_0 X1 X2))) \quad (5)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Leftrightarrow (X0 \in k4_numbers) \quad (6)$$

Assume the following.

$$\forall X0.(X0 = k3_numbers) \Leftrightarrow (\forall X1.(X1 \in X0) \Leftrightarrow (\exists X2.(v1_int_1 X2) \wedge (\exists X3.(v1_int_1 X3) \wedge (X1 = k7_xcmplx_0 X2 X3)))) \quad (7)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (8)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (v1_xreal_0 X0) \quad (9)$$

Theorem 1

$$\forall X0. \neg(X0 \in k3_numbers) \wedge (\forall X1. (v1_int_1 X1) \Rightarrow (\forall X2. (v1_int_1 X2) \Rightarrow (\neg(X2 \neq k6_numbers) \wedge (X0 = k7_xcmplx_0 X1 X2))))))$$