

l46_toprealb (TM- cAwgZWXE9kxdBqKHGKHdB6CzBape6Ax6Q)

October 27, 2020

Let $k9_toprealb : \iota$ be given. Let $k10_toprealb : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ 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 $k6_numbers : \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v3_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v5_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (\forall X3.(v1_xreal_0 X3) \Rightarrow ((k19_euclid X0 \\ & X1 = k19_euclid X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$m1_subset_1 \ k1_xboole_0 \ k4_ordinal1 \quad (2)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (5)$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (k1_real_1 \ X0 = k4_xcmplx_0 \ X0) \quad (6)$$

Assume the following.

$$v6_membered\ k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.((\neg v3_xxreal_0\ X0) \wedge (v1_xreal_0\ X0)) \Rightarrow ((v1_xcmplx_0\ (k4_xcmplx_0\ X0)) \wedge (\neg v2_xxreal_0\ (k4_xcmplx_0\ X0))) \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers) \Rightarrow (m1_subset_1\ (k1_real_1\ X0)\ k1_numbers) \quad (9)$$

Assume the following.

$$k10_toprealb = k19_euclid\ (k1_real_1\ np_1)\ k6_numbers \quad (10)$$

Assume the following.

$$k9_toprealb = k19_euclid\ np_1\ k6_numbers \quad (11)$$

Assume the following.

$$\forall X0.(v1_int_1\ X0) \Rightarrow (v1_xreal_0\ X0) \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k5_numbers) \Rightarrow (\neg v3_xxreal_0\ X0) \quad (13)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers) \Rightarrow (v1_xreal_0\ X0) \quad (14)$$

Assume the following.

$$\forall X0.(v6_membered\ X0) \Rightarrow (v5_membered\ X0) \quad (15)$$

Assume the following.

$$\forall X0.(v5_membered\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ X0) \Rightarrow (v1_int_1\ X1)) \quad (16)$$

Theorem 1 $k9_toprealb \neq k10_toprealb$.