

l1_real_3 (TMTr- jAC1bXTWr3gzKBPSGZgZdpH8pYYTwDm)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k5_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k3_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v3_xxreal_0 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow ((v1_int_1 X0) \Rightarrow ((v1_int_1 (k3_real_1 X0 np_1)) \wedge (v1_int_1 (k5_real_1 X0 np_1)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow ((r1_xxreal_0 k6_numbers X0) \Rightarrow (X0 \in k5_numbers)) \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (m1_subset_1 X1 k1_numbers)) \Rightarrow (k5_real_1 X0 X1 = k6_xcmplx_0 X0 X1) \quad (4)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\neg(\neg r1_xxreal_0 X1 X0) \wedge (r1_xxreal_0 (k6_xcmplx_0 X1 X0) k6_numbers))) \quad (6)$$

Assume the following.

$$m1_subset_1 \ np_1 \ k1_numbers \tag{7}$$

Assume the following.

$$\forall X0.(v1_xxreal_0 \ X0) \Rightarrow ((v3_xxreal_0 \ X0) \Leftrightarrow (\neg r1_xxreal_0 \ k6_numbers \ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(v1_xxreal_0 \ X0) \Rightarrow ((v2_xxreal_0 \ X0) \Leftrightarrow (\neg r1_xxreal_0 \ X0 \ k6_numbers)) \tag{9}$$

Assume the following.

$$k1_xxreal_0 = k1_numbers \tag{10}$$

Assume the following.

$$k1_xboole_0 = the \ (\lambda X0 : \iota.v1_xboole_0 \ X0) \tag{11}$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Leftrightarrow (X0 \in k4_ordinal1) \tag{12}$$

Assume the following.

$$\forall X0.(v1_xreal_0 \ X0) \Rightarrow (v1_xxreal_0 \ X0) \tag{13}$$

Assume the following.

$$\forall X0.((v1_xxreal_0 \ X0) \wedge (v2_xxreal_0 \ X0)) \Rightarrow ((\neg v1_xboole_0 \ X0) \wedge ((v1_xxreal_0 \ X0) \wedge (\neg v3_xxreal_0 \ X0))) \tag{14}$$

Assume the following.

$$\forall X0.(v1_int_1 \ X0) \Rightarrow (v1_xreal_0 \ X0) \tag{15}$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow (v1_xreal_0 \ X0) \tag{16}$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow (v1_int_1 \ X0) \tag{17}$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (v1_xreal_0 \ X0) \tag{18}$$

Theorem 1

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow ((\neg r1_xxreal_0 \ X0 \ np_1) \Rightarrow (v7_ordinal1 \ (k5_real_1 \ X0 \ np_1)))$$