

t2_euler_1 (TMFejV-
naoSmT4exUB8dfPtVsAyXmjyMGGWf)

October 27, 2020

Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int_2 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_int_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_int_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k3_int_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\neg(k6_numbers \neq X0) \wedge (r1_xxreal_0 X0 k6_numbers)) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((r1_int_1 X1 X0) \Rightarrow ((r1_xxreal_0 X0 k6_numbers) \vee (r1_xxreal_0 X1 X0)))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0) \wedge (v1_int_1 X1)) \Rightarrow (v7_ordinal1 (k3_int_2 X0 X1)) \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((v1_int_2 X0) \Leftrightarrow ((\neg r1_xxreal_0 X0 np_1) \wedge (\forall X1.(v7_ordinal1 X1) \Rightarrow (\neg(r1_int_1 X1 X0) \wedge ((X1 \neq np_1) \wedge (X1 \neq X0)))))) \quad (4)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((r1_int_2 X0 X1) \Leftrightarrow (k3_int_2 X0 X1 = np_1))) \quad (5)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow ((X2 = k3_int_2 X0 X1) \Leftrightarrow ((r1_int_1 X2 X0) \wedge ((r1_int_1 X2 X1) \wedge (\forall X3.(v1_int_1 X3) \Rightarrow (((r1_int_1 X3 X0) \wedge (r1_int_1 X3 X1)) \Rightarrow (r1_int_1 X3 X2)))))))) \quad (6)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_int_1\ X0) \quad (7)$$

Theorem 1

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(v7_ordinal1\ X1)\Rightarrow((v1_int_2\ X1)\Rightarrow((X0 = k6_numbers)\vee((r1_xxreal_0\ X1\ X0)\vee(r1_int_2\ X0\ X1))))))$$