

t1_euler_1

(TMKkcWv2zUAxVxvcxZSUvUXrk5U1Lkv7tiw)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_int_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $r1_nat_d : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_int_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. ((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (r1_nat_d X0 X0) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (v7_ordinal1 X1) \Rightarrow (\forall X2. \\ & (v7_ordinal1 X2) \Rightarrow ((X2 = k3_int_2 X0 X1) \Leftrightarrow ((r1_nat_d X2 X0) \wedge ((r1_nat_d \\ & X2 X1) \wedge (\forall X3. (v7_ordinal1 X3) \Rightarrow (((r1_nat_d X3 X0) \wedge (r1_nat_d \\ & X3 X1)) \Rightarrow (r1_nat_d X3 X2)))))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. (v1_int_1 X0) \Rightarrow (\forall X1. (v1_int_1 X1) \Rightarrow ((r1_int_2 X0 X1) \Leftrightarrow (k3_int_2 X0 X1 = np_1))) \quad (3)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (v1_int_1 X0) \quad (4)$$

Theorem 1 $\forall X0. (v7_ordinal1 X0) \Rightarrow ((r1_int_2 X0 X0) \Leftrightarrow (X0 = np_1)).$