

l21_euler_1

(TMTw2BY41mHzXowRhmijC6p8wAxePSc6Xbh)

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Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_euler_1 : \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $r1_int_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$r1_xxreal_0\ np_1\ np_1 \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0.(v1_finset_1\ X0) \Rightarrow (k5_card_1\ X0 = k1_card_1\ X0) \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.(X0 \in ReplSep\ (toSet\ (\lambda X1 : \iota.m1_subset_1\ X1\ k5_numbers)) \\ & (\lambda X1 : \iota.(r1_int_2\ np_1\ X1) \wedge ((r1_xxreal_0\ np_1\ X1) \wedge (r1_xxreal_0 \\ & X1\ np_1))) (\lambda X1 : \iota.X1)) \Leftrightarrow (X0 = np_1) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.v1_finset_1\ (k1_tarski\ X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0) \Rightarrow & (k1_euler_1\ X0 = k1_card_1\ (ReplSep \\ & (toset\ (\lambda X1 : \iota.m1_subset_1\ X1\ k5_numbers))\ (\lambda X1 : \iota. \\ & (r1_int_2\ X0\ X1) \wedge ((r1_xxreal_0\ np_1\ X1) \wedge (r1_xxreal_0\ X1\ X0)))) \\ & (\lambda X1 : \iota.X1))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1) \Rightarrow (v7_ordinal1\ X0) \quad (9)$$

Theorem 1 $k5_card_1\ (k1_tarski\ np_1) = k1_euler_1\ np_1.$