

t1_calcul_2

(TMWcuscVKx7orTYn9NJJ57zYKJf6h1LEVLv)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_calcul_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k1_calcul_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (k2_calcul_2 X0 X1 = k1_calcul_2 X0 X1) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (v7_ordinal1 X1) \Rightarrow (k1_calcul_2 \\ X0 X1 = ReplSep (toset (\lambda X2 : \iota. m1_subset_1 X2 k5_numbers)) \\ (\lambda X2 : \iota. (r1_xxreal_0 (k2_nat_1 np_1 X0) X2) \wedge (r1_xxreal_0 \\ X2 (k2_xcmplx_0 X1 X0)))) (\lambda X2 : \iota. X2))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Leftrightarrow (X0 \in k4_ordinal1) \quad (5)$$

Theorem 1

$$\begin{aligned} \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (v7_ordinal1 X1) \Rightarrow (\forall X2. \\ (v7_ordinal1 X2) \Rightarrow ((X0 \in k2_calcul_2 X1 X2) \Leftrightarrow ((r1_xxreal_0 (k2_nat_1 \\ np_1 X1) X0) \wedge (r1_xxreal_0 X0 (k2_xcmplx_0 X2 X1)))))) \end{aligned}$$