

l3_rvsum_2

(TMJQV23aPPZDLHt2CDY1RJWxWaHHz87Qdtr)

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Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k29_binop_2 : \iota$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ be given. Let $k2_numbers : \iota$ be given. Let $k5_binop_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_seq_4 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k2_numbers) \Rightarrow (k3_funct_2 k2_numbers k2_numbers (k7_seq_4 X0) \\ X1 = k5_binop_2 X0 X1)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0) \wedge \\ (((v1_funct_1 X2) \wedge ((v1_funct_2 X2 X0 X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\ (k2_zfmisc_1 X0 X1)))))) \wedge (m1_subset_1 X3 X0))) \Rightarrow (k3_funct_2 X0 \\ X1 X2 X3 = k1_funct_1 X2 X3) \end{aligned} \tag{3}$$

Assume the following.

$$\neg v1_xboole_0 k2_numbers \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow ((v1_funct_1 (k7_seq_4 X0)) \wedge ((v1_funct_2 \\ (k7_seq_4 X0) k2_numbers k2_numbers) \wedge (m1_subset_1 (k7_seq_4 \\ X0) (k1_zfmisc_1 (k2_zfmisc_1 k2_numbers k2_numbers)))))) \end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow (k7_seq_4 X0 = k5_funcop_1 k29_binop_2 \\ X0 (k6_partfun1 k2_numbers)) \end{aligned} \tag{6}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Leftrightarrow (X0 \in k2_numbers) \quad (7)$$

Theorem 1

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k1_funct_1 \\ (k5_funcop_1 k29_binop_2 X0 (k6_partfun1 k2_numbers)) X1 = k5_binop_2 \\ X0 X1))$$