

t23_int_6

(TMYE1LqcSDosHZFWXnHo6FzP8QP2nR8TBJF)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v2_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k19_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_valued_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_valued_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge ((v1_finseq_1 \\ X0) \wedge (v1_valued_0 X0)))) \Rightarrow ((\exists X1.(v7_ordinal1 X1) \wedge ((X1 \in \\ k4_finseq_1 X0) \wedge (k1_funct_1 X0 X1 = k6_numbers))) \Rightarrow (k19_rvsum_1 \\ X0 = k6_numbers)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v5_relat_1 X0 k4_numbers) \wedge ((v1_funct_1 \\ X0) \wedge (v1_finseq_1 X0)))) \Rightarrow ((v2_relat_1 X0) \Leftrightarrow (\forall X1.(v7_ordinal1 \\ X1) \Rightarrow (\neg(X1 \in k4_finseq_1 X0) \wedge (k1_funct_1 X0 X1 = k6_numbers)))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v3_valued_0 X0)) \Rightarrow ((v1_relat_1 \\ X0) \wedge (v1_valued_0 X0)) \tag{3}$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v5_relat_1 X0 k4_numbers)) \Rightarrow ((v1_relat_1 \\ X0) \wedge (v3_valued_0 X0)) \tag{4}$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((\neg v2_relat_1 X0) \wedge ((v5_relat_1 \\ X0 k4_numbers) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0)))) \Rightarrow (k19_rvsum_1 \\ X0 = k6_numbers)) \end{aligned}$$