

t32_rfunct_3

(TMHBY2SBuxcG338zqFsFtA5wQrViieYGsaH)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k16_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\ & (\forall X2. (m2_finseq_1 X2 (k3_rfunct_3 X0 k1_numbers)) \Rightarrow (\forall X3. \\ & (m2_finseq_1 X3 k1_numbers) \Rightarrow ((r1_rfunct_3 X0 k1_numbers X2 X1) \Rightarrow \\ & (r1_rfunct_3 X0 k1_numbers (k16_rfunct_3 X0 X2 X3) X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_relat_1 X1) \wedge (\\ & (v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \Rightarrow (\forall X2. (m1_subset_1 \\ & X2 X0) \Rightarrow (r1_rfunct_3 X0 k1_numbers (k15_rfunct_3 X0 X1) X2))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((v1_relat_1 X1) \wedge (\\ & (v1_funct_1 X1) \wedge (v1_finseq_1 X1)))) \Rightarrow (m2_finseq_1 (k15_rfunct_3 \\ & X0 X1) (k3_rfunct_3 X0 k1_numbers)) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_relat_1 X1) \wedge (\\ & (v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \Rightarrow (\forall X2. (m2_finseq_1 \\ & X2 k1_numbers) \Rightarrow (\forall X3. (m1_subset_1 X3 X0) \Rightarrow (r1_rfunct_3 \\ & X0 k1_numbers (k16_rfunct_3 X0 (k15_rfunct_3 X0 X1) X2) X3)))) \end{aligned}$$