

l14_integra3

(TMbMB1ufNUuCrMGML65ukQYWP1TWZaSeLtj)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_measure5 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ 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 $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_comseq_2 : \iota \Rightarrow o$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_seq_4 : \iota \Rightarrow \iota$ be given. Let $k1_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k4_seq_4 : \iota \Rightarrow \iota$ be given. Let $v5_xxreal_2 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v3_valued_0 : \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_funct_1 X1) \wedge (\\ m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 k1_numbers)))) \Rightarrow (\\ v1_comseq_2 (k2_partfun1 X0 k1_numbers X1 X0)) \Rightarrow (v5_xxreal_2 \\ (k1_rvsum_1 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow ((v5_xxreal_2 \\ X0) \Rightarrow ((v1_xboole_0 X0) \vee (r1_xxreal_0 (k5_seq_4 X0) (k4_seq_4 X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge (v3_valued_0 X0)) \Rightarrow (k1_rvsum_1 X0 = k10_xtuple_0 X0) \quad (3)$$

Assume the following.

$$\forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_relat_1 X0)) \Rightarrow (\neg v1_xboole_0 (k10_xtuple_0 X0)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. v1_relat_1 (k2_zfmisc_1 X0 X1) \quad (5)$$

Assume the following.

$$v3_membered k1_numbers \quad (6)$$

Assume the following.

$$\neg v1_xboole_0 \ k1_numbers \quad (7)$$

Assume the following.

$$\forall X0.((v1_relat_1 \ X0) \wedge (v3_valued_0 \ X0)) \Rightarrow (m1_subset_1 \ (k1_rvsum_1 \ X0) \ (k1_zfmisc_1 \ k1_numbers)) \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 \ X0) \wedge (\neg v1_xboole_0 \ X1)) \Rightarrow \\ & (\forall X2. (m1_subset_1 \ X2 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ X0 \ X1))) \Rightarrow \\ & (((v1_funct_1 \ X2) \wedge (v1_funct_2 \ X2 \ X0 \ X1)) \Rightarrow ((v1_funct_1 \ X2) \wedge ((\\ & \neg v1_xboole_0 \ X2) \wedge (v1_funct_2 \ X2 \ X0 \ X1)))))) \quad (9) \end{aligned}$$

Assume the following.

$$\forall X0. (v1_relat_1 \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)) \Rightarrow (v1_relat_1 \ X1)) \quad (10)$$

Assume the following.

$$\forall X0. \forall X1. (v3_membered \ X1) \Rightarrow (\forall X2. (m1_subset_1 \ X2 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ X0 \ X1))) \Rightarrow (v3_valued_0 \ X2)) \quad (11)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v1_xboole_0 \ X0) \wedge ((v2_measure5 \ X0) \wedge (m1_subset_1 \ X0 \ (k1_zfmisc_1 \ k1_numbers)))) \Rightarrow (\forall X1. ((v1_funct_1 \ X1) \wedge \\ & ((v1_funct_2 \ X1 \ X0 \ k1_numbers) \wedge (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (\\ & k2_zfmisc_1 \ X0 \ k1_numbers)))))) \Rightarrow ((v1_comseq_2 \ (k2_partfun1 \ X0 \ k1_numbers \ X1 \ X0)) \Rightarrow (r1_xxreal_0 \ (k5_seq_4 \ (k1_rvsum_1 \ X1)) \ (k4_seq_4 \ (k1_rvsum_1 \ X1)))) \end{aligned}$$