

l12_integr19 (TMMMyR- TajV2P8izLS8TeDSg8j3SmHEv3JbWK)

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 $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(\neg v1_xboole_0 X1) \Rightarrow \\ (\forall X2.(\neg v1_xboole_0 X2) \Rightarrow (\forall X3.((v1_funct_1 X3) \wedge \\ (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow ((r1_tarski \\ X2 (k1_relset_1 X0 X3)) \Rightarrow ((v1_funct_1 (k2_partfun1 X0 X1 X3 X2)) \wedge \\ ((v1_funct_2 (k2_partfun1 X0 X1 X3 X2) X2 X1) \wedge (m1_subset_1 (k2_partfun1 \\ X0 X1 X3 X2) (k1_zfmisc_1 (k2_zfmisc_1 X2 X1)))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.\forall X3.((v1_funct_1 X2) \wedge \\ (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow ((v1_funct_1 \\ (k2_partfun1 X0 X1 X2 X3)) \wedge (m1_subset_1 (k2_partfun1 X0 X1 X2 X3) \\ (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v1_xboole_0 X0) \wedge ((v2_measure5 X0) \wedge (m1_subset_1 \\ X0 (k1_zfmisc_1 k1_numbers)))) \Rightarrow (\forall X1.((v1_funct_1 X1) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow \\ ((r1_tarski X0 (k1_relset_1 k1_numbers X1)) \Rightarrow ((v1_funct_1 (k2_partfun1 \\ k1_numbers k1_numbers X1 X0)) \wedge ((v1_funct_2 (k2_partfun1 k1_numbers \\ k1_numbers X1 X0) X0 k1_numbers) \wedge (m1_subset_1 (k2_partfun1 k1_numbers \\ k1_numbers X1 X0) (k1_zfmisc_1 (k2_zfmisc_1 X0 k1_numbers)))))) \end{aligned}$$