

t21_bor_cant (TMXEo5PNu6xSdXbW7L7JNv3MFKt1ybcLZni)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_prob_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_prob_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m2_prob_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k5_numbers : \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $r1_bor_cant : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_prob_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_prob_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_prob_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_series_3 : \iota \Rightarrow \iota$ be given. Let $k8_prob_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_prob_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge \\
& ((v1_prob_1 X1 X0) \wedge ((v4_prob_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
& (k1_zfmisc_1 X0)))))) \Rightarrow (\forall X2. (m2_prob_1 X2 X0 X1) \Rightarrow (\forall X3. \\
& ((v5_relat_1 X3 X1) \wedge ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 k5_numbers \\
& (k9_setfam_1 X0)) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 \\
& k5_numbers (k9_setfam_1 X0)))))) \Rightarrow (\forall X4. (m2_subset_1 \\
& X4 k1_numbers k5_numbers) \Rightarrow (k3_funct_2 X1 k1_numbers X2 (k1_prob_2 \\
& X0 X1 (k1_prob_3 X0 (k2_prob_1 X0 X3)) X4) = k9_real_1 np_1 (k3_funct_2 \\
& X1 k1_numbers X2 (k1_prob_2 X0 X1 (k2_prob_3 X0 X3) X4))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge \\
& ((v1_prob_1 X1 X0) \wedge ((v4_prob_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
& (k1_zfmisc_1 X0)))))) \Rightarrow (\forall X2.(m2_prob_1 X2 X0 X1) \Rightarrow (\forall X3. \\
& ((v5_relat_1 X3 X1) \wedge ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 k5_numbers \\
& (k9_setfam_1 X0)) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 \\
& k5_numbers (k9_setfam_1 X0)))))) \Rightarrow (\forall X4.(m2_subset_1 \\
& X4 k1_numbers k5_numbers) \Rightarrow ((r1_bor_cant X0 X1 X2 X3) \Rightarrow (k3_funct_2 \\
& X1 k1_numbers X2 (k1_prob_2 X0 X1 (k1_prob_3 X0 (k2_prob_1 X0 X3)) \\
& X4) = k3_funct_2 k5_numbers k1_numbers (k1_series_3 (k8_prob_1 \\
& X0 X1 (k2_prob_1 X0 X3) X2)) X4))))))
\end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers \\
& (k9_setfam_1 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\
& k5_numbers (k9_setfam_1 X0)))))) \Rightarrow (k2_prob_1 X0 (k2_prob_1 X0 \\
& X1) = X1)
\end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.(((\neg v1_xboole_0 X1) \wedge ((v1_prob_1 \\
& X1 X0) \wedge ((v4_prob_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 \\
& X0)))))) \wedge ((v5_relat_1 X2 X1) \wedge ((v1_funct_1 X2) \wedge ((v1_funct_2 \\
& X2 k5_numbers (k9_setfam_1 X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\
& (k2_zfmisc_1 k5_numbers (k9_setfam_1 X0)))))) \Rightarrow ((v5_relat_1 \\
& (k2_prob_1 X0 X2) X1) \wedge ((v1_funct_1 (k2_prob_1 X0 X2)) \wedge (v1_funct_2 \\
& (k2_prob_1 X0 X2) k5_numbers (k9_setfam_1 X0))))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers \\
& (k9_setfam_1 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\
& k5_numbers (k9_setfam_1 X0)))))) \Rightarrow ((v1_funct_1 (k2_prob_1 X0 \\
& X1)) \wedge ((v1_funct_2 (k2_prob_1 X0 X1) k5_numbers (k9_setfam_1 X0)) \wedge \\
& (m1_subset_1 (k2_prob_1 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\
& (k9_setfam_1 X0))))))
\end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(\neg v1_xboole_0 \ X0) \Rightarrow (\forall X1.((\neg v1_xboole_0 \ X1) \wedge \\
& ((v1_prob_1 \ X1 \ X0) \wedge ((v4_prob_1 \ X1 \ X0) \wedge (m1_subset_1 \ X1 \ (k1_zfmisc_1 \\
& (k1_zfmisc_1 \ X0)))))) \Rightarrow (\forall X2.(m2_prob_1 \ X2 \ X0 \ X1) \Rightarrow (\forall X3. \\
& ((v5_relat_1 \ X3 \ X1) \wedge ((v1_funct_1 \ X3) \wedge ((v1_funct_2 \ X3 \ k5_numbers \\
& (k9_setfam_1 \ X0)) \wedge (m1_subset_1 \ X3 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \\
& k5_numbers \ (k9_setfam_1 \ X0)))))) \Rightarrow (\forall X4.(m2_subset_1 \\
& X4 \ k1_numbers \ k5_numbers) \Rightarrow (((r1_bor_cant \ X0 \ X1 \ X2 \ (k2_prob_1 \ X0 \\
& X3)) \Rightarrow (k3_funct_2 \ X1 \ k1_numbers \ X2 \ (k1_prob_2 \ X0 \ X1 \ (k1_prob_3 \ X0 \\
& X3) \ X4) = k3_funct_2 \ k5_numbers \ k1_numbers \ (k1_series_3 \ (k8_prob_1 \\
& X0 \ X1 \ X3 \ X2)) \ X4)) \wedge ((r1_bor_cant \ X0 \ X1 \ X2 \ X3) \Rightarrow (k9_real_1 \ np_1 \ (k3_funct_2 \\
& X1 \ k1_numbers \ X2 \ (k1_prob_2 \ X0 \ X1 \ (k2_prob_3 \ X0 \ X3) \ X4)) = k3_funct_2 \\
& k5_numbers \ k1_numbers \ (k1_series_3 \ (k8_prob_1 \ X0 \ X1 \ (k2_prob_1 \\
& X0 \ X3) \ X2)) \ X4))))))
\end{aligned}$$