

t21_nfcont_4

(TMQYgH2Y8PQNufgdoLMgM7jwyGv3DyCbyYf)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_euclid : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_real_ns1 : \iota \Rightarrow \iota$ be given. Let $r2_nfcont_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_nfcont_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\
 & ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (\\
 & k1_euclid X0) k1_numbers)))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_euclid \\
 & X0)) \Rightarrow ((r2_nfcont_4 X0 X1 X2) \Leftrightarrow (\exists X3.(m1_subset_1 X3 (u1_struct_0 \\
 & (k4_real_ns1 X0)))) \wedge (\exists X4.((v1_funct_1 X4) \wedge (m1_subset_1 \\
 & X4 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 (k4_real_ns1 X0)) k1_numbers)))))) \wedge \\
 & ((X2 = X3) \wedge ((X1 = X4) \wedge (r2_nfcont_1 (k4_real_ns1 X0) X4 X3))))))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\
 & ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (\\
 & k1_euclid X0) k1_numbers)))) \Rightarrow (\forall X2.((v1_funct_1 X2) \wedge (\\
 & m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 (k4_real_ns1 \\
 & X0)) k1_numbers)))) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_euclid X0)) \Rightarrow \\
 & (\forall X4.(m1_subset_1 X4 (u1_struct_0 (k4_real_ns1 X0))) \Rightarrow \\
 & (((X1 = X2) \wedge (X3 = X4)) \Rightarrow ((r2_nfcont_4 X0 X1 X3) \Leftrightarrow (r2_nfcont_1 (k4_real_ns1 \\
 & X0) X2 X4))))))
 \end{aligned}$$