

t12_fcont_2

(TMQHUBFHf5acuwpCGpq1rUWBNTfbc8hZsPP)

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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 $v1_rcomp_1 : \iota \Rightarrow o$ be given. Let $v1_fcont_2 : \iota \Rightarrow o$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_fcont_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow (((r1_tarski X0 (k1_relset_1 \\ & k1_numbers X1)) \wedge (v1_fcont_2 (k2_partfun1 k1_numbers k1_numbers \\ & X1 X0))) \Rightarrow (v1_fcont_1 (k2_partfun1 k1_numbers k1_numbers X1 X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (\forall X1. \\ & ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers \\ & k1_numbers)))) \Rightarrow (((r1_tarski X0 (k1_relset_1 k1_numbers X1)) \wedge \\ & ((v1_rcomp_1 X0) \wedge (v1_fcont_1 (k2_partfun1 k1_numbers k1_numbers \\ & X1 X0)))) \Rightarrow (v1_rcomp_1 (k7_relset_1 k1_numbers k1_numbers X1 X0)))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (\forall X1. \\ & ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers \\ & k1_numbers)))) \Rightarrow (((r1_tarski X0 (k1_relset_1 k1_numbers X1)) \wedge \\ & ((v1_rcomp_1 X0) \wedge (v1_fcont_2 (k2_partfun1 k1_numbers k1_numbers \\ & X1 X0)))) \Rightarrow (v1_rcomp_1 (k7_relset_1 k1_numbers k1_numbers X1 X0)))) \end{aligned}$$