

t19_funct_3 (TM- SXFk3xy89p86PKmGs6rRKkJNHac2p4BWu)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k1_funct_3 : \iota \Rightarrow \iota$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (r1_tarSKI (k10_xtuple_0 (k1_funct_3 X0)) (k1_zfmisc_1 (k10_xtuple_0 X0))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow ((r1_tarSKI (k10_xtuple_0 X1) X0) \Rightarrow ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 (k9_xtuple_0 X1) X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (k9_xtuple_0 X1) X0))))))) \quad (2)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v1_relat_1 (k1_funct_3 X0)) \wedge (v1_funct_1 (k1_funct_3 X0))) \quad (3)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow ((X1 = k1_funct_3 X0) \Leftrightarrow ((k9_xtuple_0 X1 = k1_zfmisc_1 (k9_xtuple_0 X0)) \wedge (\forall X2. (r1_tarSKI X2 (k9_xtuple_0 X0)) \Rightarrow (k1_funct_1 X1 X2 = k7_relat_1 X0 X2)))))) \quad (4)$$

Theorem 1

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v1_funct_1 (k1_funct_3 X0)) \wedge ((v1_funct_2 (k1_funct_3 X0) (k1_zfmisc_1 (k9_xtuple_0 X0)) (k1_zfmisc_1 (k10_xtuple_0 X0))) \wedge (m1_subset_1 (k1_funct_3 X0) (k1_zfmisc_1 (k2_zfmisc_1 (k1_zfmisc_1 (k9_xtuple_0 X0)) (k1_zfmisc_1 (k10_xtuple_0 X0)))))))$$