

t6_integra7

(TMMa1iWsyi1BWdHXrxWgrEMFGyQtndZDJN_x)

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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 $k1_numbers : \iota$ be given. Let $r2_fdiff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k47_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k20_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_rcomp_1 : \iota \Rightarrow o$ be given. Let $r2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_fdiff_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow ((r2_fdiff_1 X1 X0) \Rightarrow \\ & (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v3_rcomp_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers))) \Rightarrow \\ & (\forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & k1_numbers k1_numbers)))) \Rightarrow (\forall X2. ((v1_funct_1 X2) \wedge (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow (((r2_fdiff_1 \\ & X1 X0) \wedge (r2_fdiff_1 X2 X0)) \Rightarrow ((r2_fdiff_1 (k20_valued_1 k1_numbers \\ & k1_numbers k1_numbers X1 X2) X0) \wedge (r2_relset_1 k1_numbers k1_numbers \\ & (k2_fdiff_1 (k20_valued_1 k1_numbers k1_numbers k1_numbers X1 \\ & X2) X0) (k3_valued_1 k1_numbers k1_numbers k1_numbers (k20_valued_1 \\ & k1_numbers k1_numbers k1_numbers (k2_fdiff_1 X1 X0) X2) (k20_valued_1 \\ & k1_numbers k1_numbers k1_numbers X1 (k2_fdiff_1 X2 X0))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v3_rcomp_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers))) \Rightarrow \\
& (\forall X1.((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\
& k1_numbers k1_numbers)))) \Rightarrow (\forall X2.((v1_funct_1 X2) \wedge (m1_subset_1 \\
& X2 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow (((r2_fdiff_1 \\
& X1 X0) \wedge (r2_fdiff_1 X2 X0)) \Rightarrow ((r2_fdiff_1 (k47_valued_1 k1_numbers \\
& k1_numbers k1_numbers X1 X2) X0) \wedge (r2_relset_1 k1_numbers k1_numbers \\
& (k2_fdiff_1 (k47_valued_1 k1_numbers k1_numbers k1_numbers X1 \\
& X2) X0) (k47_valued_1 k1_numbers k1_numbers k1_numbers (k2_fdiff_1 \\
& X1 X0) (k2_fdiff_1 X2 X0))))))
\end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v3_rcomp_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k1_numbers))) \Rightarrow \\
& (\forall X1.((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\
& k1_numbers k1_numbers)))) \Rightarrow (\forall X2.((v1_funct_1 X2) \wedge (m1_subset_1 \\
& X2 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow (((r2_fdiff_1 \\
& X1 X0) \wedge (r2_fdiff_1 X2 X0)) \Rightarrow ((r2_fdiff_1 (k3_valued_1 k1_numbers \\
& k1_numbers k1_numbers X1 X2) X0) \wedge (r2_relset_1 k1_numbers k1_numbers \\
& (k2_fdiff_1 (k3_valued_1 k1_numbers k1_numbers k1_numbers X1 \\
& X2) X0) (k3_valued_1 k1_numbers k1_numbers k1_numbers (k2_fdiff_1 \\
& X1 X0) (k2_fdiff_1 X2 X0))))))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)) \Rightarrow (\forall X1. \\
& ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers \\
& k1_numbers)))) \Rightarrow ((r2_fdiff_1 X1 X0) \Rightarrow (v3_rcomp_1 X0)))
\end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned}
& \forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
& (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow (\forall X2. ((v1_funct_1 \\
& X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow \\
& (((r2_fdiff_1 X1 X0) \wedge (r2_fdiff_1 X2 X0)) \Rightarrow ((r2_fdiff_1 (k3_valued_1 \\
& k1_numbers k1_numbers k1_numbers X1 X2) X0) \wedge ((r2_fdiff_1 (k47_valued_1 \\
& k1_numbers k1_numbers k1_numbers X1 X2) X0) \wedge (r2_fdiff_1 (k20_valued_1 \\
& k1_numbers k1_numbers k1_numbers X1 X2) X0))))
\end{aligned}$$