

l1_polynom2 (TMNoDauwD- JaqxP3XWU5H5Fi241S9c2mqatu)

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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 $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat.2 : \iota \Rightarrow o$ be given. Let $v4_relat.2 : \iota \Rightarrow o$ be given. Let $v8_relat.2 : \iota \Rightarrow o$ be given. Let $k2_zfmisc.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_relat.2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r4_relat.2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r8_relat.2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat.1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_orders.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_relat.1 X2) \Rightarrow (((r4_relat.2 X2 X0) \wedge (r1_tarski X1 X0)) \Rightarrow (r4_relat.2 X2 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_relat.1 X2) \Rightarrow (((r1_relat.2 X2 X0) \wedge (r1_tarski X1 X0)) \Rightarrow (r1_relat.2 X2 X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat.2 X1) \wedge ((v4_relat.2 X1) \wedge ((v8_relat.2 X1) \wedge ((v1_partfun1 X1 X0) \wedge (m1_subset.1 X1 (k1_zfmisc.1 (k2_zfmisc.1 X0 X0))))))) \Rightarrow (r2_orders.1 X1 X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset.1 X0 (k1_zfmisc.1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_relat.1 X2) \Rightarrow (((r8_relat.2 X2 X0) \wedge (r1_tarski X1 X0)) \Rightarrow (r8_relat.2 X2 X1)) \quad (5)$$

Assume the following.

$$\forall X0. (v1_relat.1 X0) \Rightarrow (\forall X1. (r2_orders.1 X0 X1) \Leftrightarrow ((r1_relat.2 X0 X1) \wedge ((r8_relat.2 X0 X1) \wedge (r4_relat.2 X0 X1)))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(\forall X2. \\ & ((v1_partfun1 X2 X0)\wedge((v1_relat_2 X2)\wedge((v4_relat_2 X2)\wedge((v8_relat_2 \\ & X2)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))))\Rightarrow(\\ & (r1_relat_2 X2 X1)\wedge((r4_relat_2 X2 X1)\wedge(r8_relat_2 X2 X1))) \end{aligned}$$