

l7_qmax_1

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Let $m1_prob_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k12_prob_1 : \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $c2_qmax_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_prob_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_prob_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \tag{2}$$

Assume the following.

$$v1_xboole_0 np_0 \tag{3}$$

Assume the following.

$$r1_xreal_0 np_0 np_1 \tag{4}$$

Assume the following.

$$r1_xreal_0 np_0 np_0 \tag{5}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((\neg v1_xboole_0 X1) \wedge ((v1_prob_1 X1 X0) \wedge \\ & ((v4_prob_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 \\ & X0)))))) \Rightarrow (\forall X2.(m1_prob_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \tag{6}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{7}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0)\wedge \\ & (((v1_funct_1 X2)\wedge((v1_funct_2 X2 X0 X1)\wedge(m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X1))))))\wedge(m1_subset_1 X3 X0)))\Rightarrow(k3_funct_2 X0 \\ & X1 X2 X3 = k1_funct_1 X2 X3) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers))\Rightarrow((X0 \in k12_prob_1)\Rightarrow \\ & (((k6_numbers \in X0)\Rightarrow(k1_funct_1 c2_qmax_1 X0 = np_1))\wedge((\neg k6_numbers \in \\ & X0)\Rightarrow(k1_funct_1 c2_qmax_1 X0 = k6_numbers)))) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((\neg v1_xboole_0 X1)\wedge((v1_prob_1 X1 X0)\wedge \\ & ((v4_prob_1 X1 X0)\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 \\ & X0))))))\Rightarrow(\forall X2.(m1_prob_1 X2 X0 X1)\Rightarrow(m1_subset_1 X2 (k1_zfmisc_1 \\ & X0))) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & (\neg v1_xboole_0 k12_prob_1)\wedge((v1_prob_1 k12_prob_1 k1_numbers)\wedge \\ & ((v4_prob_1 k12_prob_1 k1_numbers)\wedge(m1_subset_1 k12_prob_1 \\ & (k1_zfmisc_1 (k1_zfmisc_1 k1_numbers)))))) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & (v1_funct_1 c2_qmax_1)\wedge((v1_funct_2 c2_qmax_1 k12_prob_1 \\ & k1_numbers)\wedge(m1_subset_1 c2_qmax_1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & k12_prob_1 k1_numbers)))) \end{aligned} \quad (12)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_prob_1 X0 k1_numbers k12_prob_1)\Rightarrow(r1_xreal_0 \\ & k6_numbers (k3_funct_2 k12_prob_1 k1_numbers c2_qmax_1 X0)) \end{aligned}$$