t9_turing_1 (TMJQnHhMAFHG-wXP66xRNDDcCazcHDwo3MAU)

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Let $l1\_turing\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u2\_turing\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_numbers : \iota$ be given. Let $k9\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_turing\_1 : \iota \Rightarrow \iota$ be given. Let $k8\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_turing\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k9\_turing\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $np\_\_0 : \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\begin{gathered}((v2\_xxreal\_0\ np\_\_1) \wedge (m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers)) \wedge \\ ((m1\_subset\_1\ np\_\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_1\ k1\_numbers))\end{gathered} \tag{2}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{3}$$

Assume the following.

$$k2\_xcmplx\_0\ np\_\_0\ np\_\_1 = np\_\_1 \tag{4}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{5}$$

Assume the following.

$$\begin{gathered}\forall X0.\forall X1.((v7\_ordinal1\ X0) \wedge (m1\_subset\_1\ X1\ k5\_numbers)) \Rightarrow \\ (k1\_nat\_1\ X0\ X1 = k2\_xcmplx\_0\ X0\ X1)\end{gathered} \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_turing\_1\ X0)\wedge(m1\_subset\_1\ X1\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0)))))\Rightarrow((v1\_funct\_1\ (k10\_turing\_1\ X0\ X1))\wedge((v1\_funct\_2\ (k10\_turing\_1\ X0\ X1)\ k5\_numbers\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0))))\wedge(m1\_subset\_1\ (k10\_turing\_1\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0))))))))) \tag{7}$$

Assume the following.

$$\forall X0.(l1\_turing\_1\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0))))\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ k5\_numbers\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0))))\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0)))))))\Rightarrow((X2 = k10\_turing\_1\ X0\ X1)\Leftrightarrow((k8\_nat\_1\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0)))\ X2\ k6\_numbers = X1)\wedge(\forall X3.(v7\_ordinal1\ X3)\Rightarrow(k8\_nat\_1\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0)))\ X2\ (k1\_nat\_1\ X3\ np\_\_1) = k9\_turing\_1\ X0\ (k8\_nat\_1\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0)))\ X2\ X3))))))) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(v7\_ordinal1\ X0) \tag{9}$$

Theorem 1

$$\forall X0.(l1\_turing\_1\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0))))\Rightarrow(k8\_nat\_1\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0)))\ (k10\_turing\_1\ X0\ X1)\ np\_\_1 = k9\_turing\_1\ X0\ X1))$$