

l40_turing_1

(TMVjz7CScoQ4bRBqnAcinJsZP6kQ29qLEte)

October 27, 2020

Let $k6_numbers : \iota$ be given. Let $u1_turing_1 : \iota \Rightarrow \iota$ be given. Let $k14_turing_1 : \iota$ be given. Let $np_1 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k7_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_turing_1 : \iota \Rightarrow o$ be given. Let $l1_turing_1 : \iota \Rightarrow o$ be given. Let $u2_turing_1 : \iota \Rightarrow \iota$ be given. Let $k3_turing_1 : \iota \Rightarrow \iota$ be given. Let $np_5 : \iota$ be given. Let $r1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k8_mcart_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_mcart_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u3_turing_1 : \iota \Rightarrow \iota$ be given. Let $k13_turing_1 : \iota$ be given. Let $u4_turing_1 : \iota \Rightarrow \iota$ be given. Let $u5_turing_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$m1_subset_1 \ k1_xboole_0 \ k4_ordinal1 \tag{1}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((\neg v1_xboole_0 \ X0) \wedge ((m1_subset_1 \\ & X1 \ X0) \wedge (m1_subset_1 \ X2 \ X0))) \Rightarrow (k7_domain_1 \ X0 \ X1 \ X2 = k2_tarski \ X1 \\ & X2) \end{aligned} \tag{3}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{4}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{5}$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (6)$$

Assume the following.

$$(v1_turing_1 k14_turing_1) \wedge (l1_turing_1 k14_turing_1) \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_turing_1 X0) \wedge (l1_turing_1 X0)) \Rightarrow ((X0 = k14_turing_1) \Leftrightarrow \\ ((u1_turing_1 X0 = k7_domain_1 k5_numbers k6_numbers np_1) \wedge (\\ (u2_turing_1 X0 = k3_turing_1 np_5) \wedge ((r1_funct_2 (k2_zfmisc_1 \\ (u2_turing_1 X0) (u1_turing_1 X0)) (k3_zfmisc_1 (u2_turing_1 \\ X0) (u1_turing_1 X0) (k8_domain_1 k1_numbers (k1_real_1 np_1) \\ k6_numbers np_1)) (k8_mcart_1 k5_numbers k5_numbers (k3_turing_1 \\ np_5) (k7_domain_1 k5_numbers k6_numbers np_1)) (k9_mcart_1 \\ k5_numbers k5_numbers k1_numbers (k3_turing_1 np_5) (k7_domain_1 \\ k5_numbers k6_numbers np_1) (k8_domain_1 k1_numbers (k1_real_1 \\ np_1) k6_numbers np_1)) (u3_turing_1 X0) k13_turing_1) \wedge ((u4_turing_1 \\ X0 = k6_numbers) \wedge (u5_turing_1 X0 = np_5)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0. \forall X1. k2_tarski X0 X1 = k2_tarski X1 X0 \quad (10)$$

Theorem 1

$$(k6_numbers \in u1_turing_1 k14_turing_1) \wedge (np_1 \in u1_turing_1 k14_turing_1)$$