t36_prob_4 (TMHJREZRiyUHz1HwYn2w1QRG3CG18ccJq4B)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ 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 $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k4\_prob\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\neg(X0 \in X1) \wedge (v1\_xboole\_0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge ((v1\_prob\_1\ X1\ X0) \wedge ((v4\_prob\_1\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0)))))) \Rightarrow (\forall X2.(m2\_prob\_1\ X2\ X0\ X1) \Rightarrow (\forall X3.(X3 \in k4\_prob\_4\ X0\ X1\ X2) \Leftrightarrow (\exists X4.\exists X5.(X4 \in X1) \wedge ((X5 \in X1) \wedge ((r1\_tarski\ X4\ X3) \wedge ((r1\_tarski\ X3\ X5) \wedge (k1\_funct\_1\ X2\ (k6\_subset\_1\ X5\ X4) = k6\_numbers)))))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(\forall X2.(X2 \in X0) \Leftrightarrow (X2 \in X1)) \Rightarrow (X0 = X1) \tag{3}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge ((v1\_prob\_1\ X1\ X0) \wedge ((v4\_prob\_1\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0)))))) \Rightarrow (\forall X2.(m2\_prob\_1\ X2\ X0\ X1) \Rightarrow (\forall X3.((\neg v1\_xboole\_0\ X3) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow ((\forall X4.(X4 \in X3) \Leftrightarrow (\exists X5.\exists X6.(X5 \in X1) \wedge ((X6 \in X1) \wedge ((r1\_tarski\ X5\ X4) \wedge ((r1\_tarski\ X4\ X6) \wedge (k1\_funct\_1\ X2\ (k6\_subset\_1\ X6\ X5) = k6\_numbers)))))) \Rightarrow (X3 = k4\_prob\_4\ X0\ X1\ X2)))))$$