t20_rewrite2 (TMX8NHbgYT9KcmRnC8Lma1c9kueXydXTPas)

October 27, 2020

Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $r2\_rewrite2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_partit\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_rewrite2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.m1\_subset\_1\ (k1\_partit\_2\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k8\_afinsq\_1\ X0)\ (k8\_afinsq\_1\ X0)))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k8\_afinsq\_1\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (k8\_afinsq\_1\ X0)) \Rightarrow ((r2\_rewrite2\ X0\ X1\ X2\ X3) \Leftrightarrow (\exists X4.(m1\_subset\_1\ X4\ (k8\_afinsq\_1\ X0)) \wedge (\exists X5.(m1\_subset\_1\ X5\ (k8\_afinsq\_1\ X0)) \wedge (\exists X6.(m1\_subset\_1\ X6\ (k8\_afinsq\_1\ X0)) \wedge (\exists X7.(m1\_subset\_1\ X7\ (k8\_afinsq\_1\ X0)) \wedge ((X2 = k1\_flang\_1\ X0\ (k1\_flang\_1\ X0\ X4\ X6)\ X5) \wedge ((X3 = k1\_flang\_1\ X0\ (k1\_flang\_1\ X0\ X4\ X7)\ X5) \wedge (r1\_rewrite2\ X0\ X1\ X6\ X7)))))))))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k8\_afinsq\_1\ X0)\ (k8\_afinsq\_1\ X0)))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k8\_afinsq\_1\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (k8\_afinsq\_1\ X0)) \Rightarrow ((r1\_rewrite2\ X0\ X1\ X2\ X3) \Leftrightarrow (k1\_domain\_1\ (k8\_afinsq\_1\ X0)\ (k8\_afinsq\_1\ X0)\ X2\ X3 \in X1)))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.k1\_partit\_2\ X0\ X1 = k1\_xboole\_0 \tag{6}$$

Theorem 1

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k8\_afinsq\_1\ X0))\Rightarrow(\forall X2.\ (m1\_subset\_1\ X2\ (k8\_afinsq\_1\ X0))\Rightarrow(\neg r2\_rewrite2\ X0\ (k1\_partit\_2\ (k8\_afinsq\_1\ X0)\ (k8\_afinsq\_1\ X0))\ X1\ X2))$$