

## t15\_rewrite2

(TMKd6Dq6T195N5w6VbX3eAPrqSoiZJFMm4G)

October 27, 2020

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

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k8\_afinsq\_1 X0) (k8\_afinsq\_1 X0)))) \Rightarrow (\forall X2. (m1\_subset\_1 \\ & X2 (k8\_afinsq\_1 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 X3 (k8\_afinsq\_1 \\ & X0)) \Rightarrow (\forall X4. (m1\_subset\_1 X4 (k8\_afinsq\_1 X0)) \Rightarrow (\forall X5. \\ & (m1\_subset\_1 X5 (k8\_afinsq\_1 X0)) \Rightarrow ((r2\_rewrite2 X0 X1 X2 X3) \Rightarrow ( \\ & r2\_rewrite2 X0 X1 (k1\_flang\_1 X0 (k1\_flang\_1 X0 X4 X2) X5) (k1\_flang\_1 \\ & X0 (k1\_flang\_1 X0 X4 X3) X5))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k8\_afinsq\_1 X0) (k8\_afinsq\_1 X0)))) \Rightarrow (\forall X2. (m1\_subset\_1 \\ & X2 (k8\_afinsq\_1 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 X3 (k8\_afinsq\_1 \\ & X0)) \Rightarrow ((r1\_rewrite2 X0 X1 X2 X3) \Rightarrow (r2\_rewrite2 X0 X1 X2 X3)))) \end{aligned} \tag{2}$$

### Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k8\_afinsq\_1 X0) (k8\_afinsq\_1 X0)))) \Rightarrow (\forall X2. (m1\_subset\_1 \\ & X2 (k8\_afinsq\_1 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 X3 (k8\_afinsq\_1 \\ & X0)) \Rightarrow (\forall X4. (m1\_subset\_1 X4 (k8\_afinsq\_1 X0)) \Rightarrow (\forall X5. \\ & (m1\_subset\_1 X5 (k8\_afinsq\_1 X0)) \Rightarrow ((r1\_rewrite2 X0 X1 X2 X3) \Rightarrow ( \\ & r2\_rewrite2 X0 X1 (k1\_flang\_1 X0 (k1\_flang\_1 X0 X4 X2) X5) (k1\_flang\_1 \\ & X0 (k1\_flang\_1 X0 X4 X3) X5))))))))) \end{aligned}$$