

t55_rewrite2 (TMXoEUHemewDxSgn- mFs4WmPaSDM5pzzRMDR)

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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 $r4_rewrite2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_rewrite2 : \iota \Rightarrow \iota$ be given. Let $k8_rewrite2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & \quad (k8_afinsq_1 X0) (k8_afinsq_1 X0)))) \Rightarrow (\forall X2. (m1_subset_1 \\ X2 (k8_afinsq_1 X0)) \Rightarrow (k8_rewrite2 X0 X1 X2 = k8_rewrite2 X0 (k4_subset_1 \\ & \quad (k2_zfmisc_1 (k8_afinsq_1 X0) (k8_afinsq_1 X0)) X1 (k6_rewrite2 \\ & \quad \quad (k8_afinsq_1 X0))) X2)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. m1_subset_1 (k6_rewrite2 X0) (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 \\ X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 X0))) \Rightarrow (m1_subset_1 (k4_subset_1 \\ & \quad X0 X1 X2) (k1_zfmisc_1 X0)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & \quad (k8_afinsq_1 X0) (k8_afinsq_1 X0)))) \Rightarrow (\forall X2. (m1_subset_1 \\ X2 (k1_zfmisc_1 (k2_zfmisc_1 (k8_afinsq_1 X0) (k8_afinsq_1 X0)))) \Rightarrow \\ & \quad (\forall X3. (m1_subset_1 X3 (k8_afinsq_1 X0)) \Rightarrow ((r4_rewrite2 \\ X0 X1 X2 X3) \Leftrightarrow (k8_rewrite2 X0 X1 X3 = k8_rewrite2 X0 X2 X3)))) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & (k8_afinsq_1 X0) (k8_afinsq_1 X0)))) \Rightarrow (\forall X2. (m1_subset_1 \\ & X2 (k8_afinsq_1 X0)) \Rightarrow (r4_rewrite2 X0 X1 (k4_subset_1 (k2_zfmisc_1 \\ & (k8_afinsq_1 X0) (k8_afinsq_1 X0)) X1 (k6_rewrite2 (k8_afinsq_1 \\ & X0)) X2)) \end{aligned}$$