

t50_rewrite2 (TMRrQQGVbyMAmHM- pXZUu1BKvmyPQrnMBsE7)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $k8_rewrite2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_partit_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r3_rewrite2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k8_afinsq_1 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (k8_afinsq_1 X0)) \Rightarrow ((r3_rewrite2 X0 (k1_partit_2 \\ & (k8_afinsq_1 X0) (k8_afinsq_1 X0)) X1 X2) \Rightarrow (X1 = X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & (k8_afinsq_1 X0) (k8_afinsq_1 X0)))) \Rightarrow (\forall X2. (m1_subset_1 \\ & X2 (k8_afinsq_1 X0)) \Rightarrow (r3_rewrite2 X0 X1 X2 X2)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k3_catalan2 X0)) \Rightarrow (k4_flang_1 X0 X1 = k1_tarski X1) \quad (3)$$

Assume the following.

$$\forall X0. k3_catalan2 X0 = k8_afinsq_1 X0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 (k1_partit_2 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & (k8_afinsq_1 X0) (k8_afinsq_1 X0)))) \Rightarrow (\forall X2. (m1_subset_1 \\ & X2 (k8_afinsq_1 X0)) \Rightarrow (k8_rewrite2 X0 X1 X2 = ReplSep (toset (\lambda X3 : \\ & \iota. m1_subset_1 X3 (k8_afinsq_1 X0))) (\lambda X3 : \iota. r3_rewrite2 \\ & X0 X1 X2 X3) (\lambda X3 : \iota. X3))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarSKI X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.k1_partit_2 X0 X1 = k1_xboole_0 \quad (8)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 X1 (k8_afinsq_1 X0)) \Rightarrow (k8_rewrite2 X0 (k1_partit_2 (k8_afinsq_1 X0) (k8_afinsq_1 X0)) X1 = k4_flang_1 X0 X1)$$