

t51_rewrite2

(TMJ7TomxAefLuQQ25ja3pjDyySiowvCzXSF)

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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 $k6_rewrite2 : \iota \Rightarrow \iota$ be given. Let $k4_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_partit_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k8_afinsq_1 X0)) \Rightarrow (k8_rewrite2 X0 (k1_partit_2 (k8_afinsq_1 X0) (k8_afinsq_1 X0)) X1 = k4_flang_1 X0 X1) \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (k8_afinsq_1 X0) (k8_afinsq_1 X0)))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k8_afinsq_1 X0)) \Rightarrow (k8_rewrite2 X0 X1 X2 = k8_rewrite2 X0 (k4_subset_1 (k2_zfmisc_1 (k8_afinsq_1 X0) (k8_afinsq_1 X0)) X1 (k6_rewrite2 (k8_afinsq_1 X0))) X2)) \tag{2}$$

Assume the following.

$$\forall X0. k2_xboole_0 X0 k1_xboole_0 = X0 \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 X0))) \Rightarrow (k4_subset_1 X0 X1 X2 = k2_xboole_0 X1 X2) \tag{4}$$

Assume the following.

$$\forall X0. m1_subset_1 (k6_rewrite2 X0) (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.m1_subset_1 (k1_partit_2 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.k1_partit_2 X0 X1 = k1_xboole_0 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (8)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 X1 (k8_afinsq_1 X0)) \Rightarrow (k8_rewrite2 X0 (k6_rewrite2 (k8_afinsq_1 X0)) X1 = k4_flang_1 X0 X1)$$