t220_member_1 (TMSbpeuuoF4J6sEA8UUvTFSgz3bvPvcHB3N)

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Let $v1_membered : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k25_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_member_1 : \iota \Rightarrow \iota$ be given. Let $k23_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k15_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $\iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $\iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $\iota \Rightarrow \iota \Rightarrow \iota$

 $\forall X0.(v1_membered \ X0) \Rightarrow (\forall X1.(v1_membered \ X1) \Rightarrow (k7_member_1 \\ (k5_xboole_0 \ X0 \ X1) = k5_xboole_0 \ (k7_member_1 \ X0) \ (k7_member_1 \ X1)))$

Assume the following.

 $\forall X0.(v1_membered \ X0) \Rightarrow (\forall X1.(v1_membered \ X1) \Rightarrow (\forall X2. (v1_xcmplx_0 \ X2) \Rightarrow ((X2 \neq k6_numbers) \Rightarrow (k23_member_1 \ (k5_xboole_0 \ X0 \ X1) \ X2 = k5_xboole_0 \ (k23_member_1 \ X0 \ X2) \ (k23_member_1 \ X1 \ X2)))))$ (2)

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (v1_membered (k1_tarski X0))$$
(3)

(1)

Assume the following.

$$\forall X0.\forall X1.((v1_membered \ X0) \land (v1_membered \ X1)) \Rightarrow ($$

$$v1_membered \ (k5_xboole_0 \ X0 \ X1)) \qquad (4)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 \ X0)) \land (v1_membered \ X0)) \Rightarrow ((\neg v1_xboole_0 \ (k7_member_1 \ X0))) \land (v1_membered \ (k7_member_1 \ X0)))$$
(5)

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0) \Rightarrow ((v1_xboole_0 \ (k7_member_1 \ X0)) \land (v1_membered \ (k7_member_1 \ X0)))$$

$$(6)$$

Assume the following.

$$\forall X0.(v1_membered \ X0) \Rightarrow (\forall X1.(v1_xcmplx_0 \ X1) \Rightarrow (k25_member_1 \ X0 \ X1 = k15_member_1 \ (k1_tarski \ X1) \ X0))$$
(7)

Assume the following.

$$\forall X0.(v1_membered \ X0) \Rightarrow (\forall X1.(v1_xcmplx_0 \ X1) \Rightarrow (k23_member_1 \ X0 \ X1 = k13_member_1 \ (k1_tarski \ X1) \ X0))$$
(8)

Assume the following.

$$\forall X0.(v1_membered \ X0) \Rightarrow (\forall X1.(v1_membered \ X1) \Rightarrow (k15_member_1 \ X0 \ X1 = k13_member_1 \ X0 \ (k7_member_1 \ X1)))$$
(9)

Assume the following.

$$\forall X0.\forall X1.k5_xboole_0 \ X0 \ X1 = k5_xboole_0 \ X1 \ X0 \tag{10}$$

Theorem 1

 $\begin{array}{l} \forall X0.(v1_membered\ X0) \Rightarrow (\forall X1.(v1_membered\ X1) \Rightarrow (\forall X2.\\ (v1_xcmplx_0\ X2) \Rightarrow ((X2 \neq k6_numbers) \Rightarrow (k25_member_1\ (k5_xboole_0\ X0\ X1)\ X2 = k5_xboole_0\ (k25_member_1\ X0\ X2)\ (k25_member_1\ X1\ X2))))) \end{array}$