## t36\_member\_1 (TMauLBL21RBQyhsst9zmjG3x5DuxH4EhgNL)

## October 27, 2020

$$\forall X0.(v1\_membered \ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0 \ X1) \Rightarrow ((k2\_binop\_2 \ X1 \in X0) \Leftrightarrow (X1 \in k7\_member\_1 \ X0)))$$
(1)

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k5\_xcmplx\_0 (k4\_xcmplx\_0 X0) = k4\_xcmplx\_0 (k5\_xcmplx\_0 X0))$$

Assume the following.

$$\forall X0.(v1\_membered \ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0 \ X1) \Rightarrow ((k1\_binop\_2 \ X1 \in X0) \Leftrightarrow (X1 \in k5\_member\_1 \ X0)))$$
(3)

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k2\_binop\_2 X0 = k5\_xcmplx\_0 X0)$$
(4)

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k1\_binop\_2 X0 = k4\_xcmplx\_0 X0)$$
(5)

Assume the following.

$$\forall X0.(v1\_membered \ X0) \Rightarrow (k7\_member\_1 \ (k7\_member\_1 \ X0) = X0)$$
(6)

Assume the following.

$$\forall X0.(v1\_membered \ X0) \Rightarrow (k5\_member\_1 \ (k5\_member\_1 \ X0) = X0)$$
(7)

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k2\_binop\_2 (k2\_binop\_2 X0) = X0)$$
(8)

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k1\_binop\_2 (k1\_binop\_2 X0) = X0)$$
(9)

Assume the following.

$$\forall X0.(v1\_membered \ X0) \Rightarrow (v1\_membered \ (k7\_member\_1 \ X0))$$
(10)

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (v1\_xcmplx\_0 (k5\_xcmplx\_0 X0))$$
(11)

Assume the following.

$$\forall X0.(v1\_membered \ X0) \Rightarrow (v1\_membered \ (k5\_member\_1 \ X0))$$
(12)

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (m1\_subset\_1 (k2\_binop\_2 X0) k2\_numbers)$$
(13)

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (m1\_subset\_1 (k1\_binop\_2 X0) k2\_numbers) \quad (14)$$

Assume the following.

$$\forall X0.(v1\_membered \ X0) \Rightarrow (\forall X1.(v1\_membered \ X1) \Rightarrow ((X0 = X1) \Leftrightarrow (\forall X2.(v1\_xcmplx\_0 \ X2) \Rightarrow ((X2 \in X0) \Leftrightarrow (X2 \in X1)))))$$
(15)

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k2\_numbers) \Rightarrow (v1\_xcmplx\_0 \ X0)$$
(16)

## Theorem 1

 $\forall X0.(v1\_membered \ X0) \Rightarrow (k5\_member\_1 \ (k7\_member\_1 \ X0) = k7\_member\_1 \ (k5\_member\_1 \ X0))$