

t216_member_1 (TMb-
jPWN7ysTvMhgA6YD4dtU2ECxVTYKc7qQ)

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Let $v1_membered : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k25_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ 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 $k15_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_member_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(v1_membered X1) \Rightarrow ((r1_tarski X0 X1) \Leftrightarrow (r1_tarski (k7_member_1 X0) (k7_member_1 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(v1_membered X1) \Rightarrow (\forall X2.(v1_xcmplx_0 X2) \Rightarrow ((r1_tarski (k23_member_1 X0 X2) (k23_member_1 X1 X2)) \Rightarrow ((X2 = k6_numbers) \vee (r1_tarski X0 X1)))))) \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (v1_membered (k7_member_1 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k25_member_1 X0 X1 = k15_member_1 (k1_tarski X1) X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k23_member_1 X0 X1 = k13_member_1 (k1_tarski X1) X0)) \quad (6)$$

Assume the following.

$$\forall X0.(v1_membered X0) \Rightarrow (\forall X1.(v1_membered X1) \Rightarrow (k15_member_1 X0 X1 = k13_member_1 X0 (k7_member_1 X1))) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_membered\ X0) \Rightarrow (\forall X1.(v1_membered\ X1) \Rightarrow (\forall X2. \\ & (v1_xcmplx_0\ X2) \Rightarrow ((r1_tarski\ (k25_member_1\ X0\ X2)\ (k25_member_1 \\ & X1\ X2)) \Rightarrow ((X2 = k6_numbers) \vee (r1_tarski\ X0\ X1)))))) \end{aligned}$$