

t16_membered (TMVHYpdRD- KPEYBFKgiYe7v58sSDMwTndUiF)

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Let $v4_membered : \iota \Rightarrow o$ be given. Let $v1_rat_1 : \iota \Rightarrow o$ be given. Let $k3_numbers : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v4_membered X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow (v1_rat_1 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_rat_1 X0) \Leftrightarrow (X0 \in k3_numbers) \quad (2)$$

Assume the following.

$$\forall X0.(X0 = k3_numbers) \Leftrightarrow (\forall X1.(X1 \in X0) \Leftrightarrow (\exists X2. (v1_int_1 X2) \wedge (\exists X3.(v1_int_1 X3) \wedge (X1 = k7_xcmplx_0 X2 X3)))) \quad (3)$$

Theorem 1

$$\forall X0.(v4_membered X0) \Rightarrow ((\forall X1.(v1_rat_1 X1) \Rightarrow (X1 \in X0)) \Rightarrow (X0 = k3_numbers))$$