

t62_complex1
(TMaZes2cEHtAJAUHhWt9Lx9g5wXrXnFzb3U)

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Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k17_complex1 : \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow ((\neg(X0 \neq k6_numbers) \wedge (r1_xxreal_0 (k17_complex1 X0) k6_numbers)) \wedge (\neg(\neg r1_xxreal_0 (k17_complex1 X0) k6_numbers) \wedge (X0 = k6_numbers))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (r1_xxreal_0 k6_numbers (k17_complex1 X0)) \quad (2)$$

Assume the following.

$$k17_complex1 k6_numbers = k6_numbers \quad (3)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((k6_xcmplx_0 X0 X1 = k6_numbers) \Rightarrow (X0 = X1))) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k6_xcmplx_0 X0 X0 = k6_numbers) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (v1_xcmplx_0 (k6_xcmplx_0 X0 X1)) \quad (6)$$

Theorem 1

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((\neg(X0 \neq X1) \wedge (r1_xxreal_0 (k17_complex1 (k6_xcmplx_0 X0 X1) k6_numbers)) \wedge (\neg(\neg r1_xxreal_0 (k17_complex1 (k6_xcmplx_0 X0 X1) k6_numbers) \wedge (X0 = X1))))))$$