

t53_square_1
(TMYgRzLp4rKfhz92zkYATJiht5oZ3EWpqpT)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_square_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (r1_xxreal_0 k6_numbers (k3_xcmplx_0 X0 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 X0 k6_numbers) \wedge ((r1_xxreal_0 (k4_xcmplx_0 np_1) X0) \wedge (r1_xxreal_0 (k4_xcmplx_0 np_1) X1))) \Rightarrow (r1_xxreal_0 (k3_xcmplx_0 X0 X1) np_1))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 k6_numbers X0) \wedge ((r1_xxreal_0 X0 np_1) \wedge (r1_xxreal_0 X1 np_1))) \Rightarrow (r1_xxreal_0 (k3_xcmplx_0 X0 X1) np_1))) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\neg(\neg r1_xxreal_0 X0 k6_numbers) \wedge ((\neg r1_xxreal_0 k6_numbers X1) \wedge (r1_xxreal_0 k6_numbers (k3_xcmplx_0 X0 X1)))))) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xreal_0 (k3_square_1 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_square_1 X0 = k3_xcmplx_0 X0 X0) \quad (6)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (7)$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 \\ (k4_xcmplx_0 np_1) X0) \wedge ((r1_xxreal_0 X0 np_1) \wedge ((r1_xxreal_0 \\ (k4_xcmplx_0 np_1) X1) \wedge (r1_xxreal_0 X1 np_1)))))) \Rightarrow (r1_xxreal_0 \\ (k3_xcmplx_0 (k3_square_1 X0) (k3_square_1 X1)) np_1)) \end{aligned}$$