

t52_square_1 (TMK-
wUzdiRKURXiKbU8mKyEEYRazQybrRfdr)

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

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 X0 (k4_xcmplx_0 np_1)) \wedge (r1_xxreal_0 X1 (k4_xcmplx_0 np_1))) \Rightarrow (r1_xxreal_0 np_1 (k3_xcmplx_0 X0 X1)))) \quad (1)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_square_1 X0 = k3_xcmplx_0 X0 X0) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (4)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (((\neg r1_xxreal_0 np_1 (k3_square_1 X0)) \Rightarrow ((\neg r1_xxreal_0 X0 (k4_xcmplx_0 np_1)) \wedge (\neg r1_xxreal_0 np_1 X0)))$$