

t36_square_1 (TMafUQrCjckZEBTpRnNan- qfVU9xp2Hm1zDp)

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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 $k6_numbers : \iota$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_square_1 : \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k3_square_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((\\ k6_xcmplx_0 (k3_square_1 X0) (k3_square_1 X1) \neq k6_numbers) \Rightarrow (\\ k7_xcmplx_0 np_1 (k2_xcmplx_0 X0 X1) = k7_xcmplx_0 (k6_xcmplx_0 \\ X0 X1) (k6_xcmplx_0 (k3_square_1 X0) (k3_square_1 X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg(r1_xxreal_0 \\ k6_numbers X0) \wedge ((r1_xxreal_0 k6_numbers X1) \wedge ((X0 \neq X1) \wedge (k6_xcmplx_0 \\ (k3_square_1 (k6_square_1 X0) (k3_square_1 (k6_square_1 X1)) = \\ k6_numbers)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xreal_0 (k6_square_1 X0)) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow ((r1_xxreal_0 k6_numbers X0) \Rightarrow (\forall X1. \\ (v1_xreal_0 X1) \Rightarrow ((X1 = k6_square_1 X0) \Leftrightarrow ((r1_xxreal_0 k6_numbers \\ X1) \wedge (k3_square_1 X1 = X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 \\ & k6_numbers X0) \wedge (r1_xxreal_0 k6_numbers X1)) \Rightarrow ((X0 = X1) \vee (k7_xcmplx_0 \\ & np_1 (k2_xcmplx_0 (k6_square_1 X0) (k6_square_1 X1)) = k7_xcmplx_0 \\ & (k6_xcmplx_0 (k6_square_1 X0) (k6_square_1 X1)) (k6_xcmplx_0 \\ & X0 X1)))))) \end{aligned}$$