

# t57\_square\_1 (TMUWyAMRVqpDTjphP- WVnh7unM1Nv7oJXANY)

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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  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k3\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  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.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\neg(\neg r1\_xxreal\_0 X0 k6\_numbers) \wedge ((\neg r1\_xxreal\_0 k6\_numbers X1) \wedge (r1\_xxreal\_0 k6\_numbers (k3\_xcmplx\_0 X0 X1)))))) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (((r1\_xxreal\_0 k6\_numbers X0) \wedge (r1\_xxreal\_0 X1 X0)) \Rightarrow (r1\_xxreal\_0 (k3\_xcmplx\_0 X1 (k6\_square\_1 (k2\_xcmplx\_0 np\_1 (k3\_square\_1 X0)))) (k3\_xcmplx\_0 X0 (k6\_square\_1 (k2\_xcmplx\_0 np\_1 (k3\_square\_1 X1))))))) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (((r1\_xxreal\_0 X0 k6\_numbers) \wedge (r1\_xxreal\_0 X1 X0)) \Rightarrow (r1\_xxreal\_0 (k3\_xcmplx\_0 X1 (k6\_square\_1 (k2\_xcmplx\_0 np\_1 (k3\_square\_1 X0)))) (k3\_xcmplx\_0 X0 (k6\_square\_1 (k2\_xcmplx\_0 np\_1 (k3\_square\_1 X1))))))) \quad (4)$$

## Theorem 1

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow ((r1\_xxreal\_0 X1 X0) \Rightarrow (r1\_xxreal\_0 (k3\_xcmplx\_0 X1 (k6\_square\_1 (k2\_xcmplx\_0 np\_1 (k3\_square\_1 X0)))) (k3\_xcmplx\_0 X0 (k6\_square\_1 (k2\_xcmplx\_0 np\_1 (k3\_square\_1 X1)))))))$$