

t25_series_3

(TMVZYn4LsnNtKDqZZvUmPsSj7aw9uYqrwiK)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_complex1 : \iota \Rightarrow \iota$ be given. Let $k3_square_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ 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.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 \\ k6_numbers X1) \Rightarrow ((r1_xxreal_0 (k3_square_1 X1) (k3_square_1 X0)) \vee \\ ((\neg r1_xxreal_0 X0 (k4_xcmplx_0 X1)) \wedge (\neg r1_xxreal_0 X1 X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (((\neg \\ r1_xxreal_0 X1 (k4_xcmplx_0 X0)) \wedge (\neg r1_xxreal_0 X0 X1)) \Leftrightarrow (\neg r1_xxreal_0 \\ X0 (k18_complex1 X1)))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg (\neg \\ r1_xxreal_0 X0 k6_numbers) \wedge ((\neg r1_xxreal_0 k6_numbers X1) \wedge (r1_xxreal_0 \\ k6_numbers (k3_xcmplx_0 X0 X1)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow ((v2_xxreal_0 X0) \Leftrightarrow (\neg r1_xxreal_0 X0 k6_numbers)) \quad (5)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xxreal_0 X0) \quad (6)$$

Theorem 1

$$\forall X0.((v1_xreal_0 X0) \wedge (v2_xxreal_0 X0)) \Rightarrow (\forall X1. (v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 (k18_complex1 X1)) \Rightarrow (r1_xxreal_0 (k3_square_1 X0) (k3_square_1 X1))))$$