

t76_complex2

(TMWEaKrLKHtF_xXt9oEMffX6kaf9rz3azU7k)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_complex1 : \iota \Rightarrow \iota$ be given. Let $k1_complex2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_complex1 : \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k4_complex2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $np_2 : \iota$ be given. Let $k4_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $k3_complex1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k2_numbers) \Rightarrow (\neg(X0 \neq k6_numbers) \wedge ((X1 \neq k6_numbers) \wedge (\neg(k3_complex1 \\ & (k1_complex2 X0 X1) = k6_numbers) \Leftrightarrow ((k4_complex2 X0 k6_numbers \\ & X1 = k13_complex1 k32_sin_cos np_2) \vee (k4_complex2 X0 k6_numbers \\ & X1 = k4_real_1 (k13_complex1 np_3 np_2) k32_sin_cos)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k2_numbers) \Rightarrow ((k3_complex1 (k1_complex2 X0 X1) = k6_numbers) \Leftrightarrow \\ & ((k4_complex1 (k1_complex2 X0 X1) = k8_real_1 (k17_complex1 X0 \\ & (k17_complex1 X1)) \vee (k4_complex1 (k1_complex2 X0 X1) = k1_real_1 \\ & (k8_real_1 (k17_complex1 X0) (k17_complex1 X1)))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k2_numbers) \Rightarrow (\neg(X0 \neq k6_numbers) \wedge ((X1 \neq k6_numbers) \wedge (\neg(\neg((\\ & k4_complex1 (k1_complex2 X0 X1) = k8_real_1 (k17_complex1 X0) (\\ & k17_complex1 X1)) \vee (k4_complex1 (k1_complex2 X0 X1) = k1_real_1 \\ & (k8_real_1 (k17_complex1 X0) (k17_complex1 X1)))))) \wedge ((k4_complex2 \\ & X0 k6_numbers X1 \neq k13_complex1 k32_sin_cos np_2) \wedge (k4_complex2 \\ & X0 k6_numbers X1 \neq k4_real_1 (k13_complex1 np_3 np_2) k32_sin_cos))) \wedge \\ & (\neg((k4_complex2 X0 k6_numbers X1 = k13_complex1 k32_sin_cos np_2) \vee \\ & (k4_complex2 X0 k6_numbers X1 = k4_real_1 (k13_complex1 np_3 np_2) \\ & k32_sin_cos))) \wedge ((k4_complex1 (k1_complex2 X0 X1) \neq k8_real_1 (\\ & k17_complex1 X0) (k17_complex1 X1)) \wedge (k4_complex1 (k1_complex2 \\ & X0 X1) \neq k1_real_1 (k8_real_1 (k17_complex1 X0) (k17_complex1 X1))))))))) \end{aligned}$$