

t143_jgraph_4 (TMM-
chriRZe91KNaycPCENhkgCNNSG1FAFga)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k9_jgraph_4 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ be given. Let $k18_euclid : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_euclid : \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k7_square_1 : \iota \Rightarrow \iota$ be given. Let $k4_square_1 : \iota \Rightarrow \iota$ be given. Let $np_0 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k16_euclid : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$k4_struct_0 (k15_euclid np_2) = k19_euclid k6_numbers k6_numbers \quad (2)$$

Assume the following.

$$(k17_euclid (k4_struct_0 (k15_euclid np_2)) = k6_numbers) \wedge (k18_euclid (k4_struct_0 (k15_euclid np_2)) = k6_numbers) \quad (3)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 X1 (k13_complex1 \\
& (k17_euclid X0) (k12_euclid X0))) \Rightarrow ((r1_xxreal_0 k6_numbers (\\
& k18_euclid X0)) \vee (k3_funct_2 (u1_struct_0 (k15_euclid np_2)) \\
& (u1_struct_0 (k15_euclid np_2)) (k9_jgraph_4 X1) X0 = k19_euclid \\
& (k8_real_1 (k12_euclid X0) (k13_complex1 (k6_xcmplx_0 (k13_complex1 \\
& (k17_euclid X0) (k12_euclid X0)) X1) (k9_real_1 np_1 X1))) (k8_real_1 \\
& (k12_euclid X0) (k1_real_1 (k7_square_1 (k9_real_1 np_1) (k4_square_1 \\
& (k13_complex1 (k6_xcmplx_0 (k13_complex1 (k17_euclid X0) (k12_euclid \\
& X0)) X1) (k9_real_1 np_1 X1))))))))) \wedge ((r1_xxreal_0 k6_numbers \\
& (k18_euclid X0)) \Rightarrow (k3_funct_2 (u1_struct_0 (k15_euclid np_2)) \\
& (u1_struct_0 (k15_euclid np_2)) (k9_jgraph_4 X1) X0 = X0))))
\end{aligned} \tag{4}$$

Assume the following.

$$v1_xboole_0 np_0 \tag{5}$$

Assume the following.

$$r1_xxreal_0 np_0 np_0 \tag{6}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{7}$$

Assume the following.

$$\exists X0.(v1_xboole_0 X0) \wedge ((v1_xcmplx_0 X0) \wedge ((v1_xxreal_0 X0) \wedge (v1_xreal_0 X0))) \tag{8}$$

Assume the following.

$$k4_struct_0 (k15_euclid np_2) = k16_euclid np_2 \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \Rightarrow (m1_subset_1 (k19_euclid X0 X1) (u1_struct_0 (k15_euclid np_2))) \tag{10}$$

Assume the following.

$$k1_xboole_0 = the (\lambda X0 : \iota.v1_xboole_0 X0) \tag{11}$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (k4_struct_0 (k15_euclid np_2) = k3_funct_2 (u1_struct_0 (k15_euclid np_2)) (u1_struct_0 (k15_euclid np_2)) (k9_jgraph_4 X0) (k4_struct_0 (k15_euclid np_2)))$$