

## t48\_jgraph\_4

(TMUenX3HPV2woMiZ6WXVMeJLvXabyB82Ud5)

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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  $k3\_jgraph\_4 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarSKI : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k17\_euclid : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k18\_euclid : \iota \Rightarrow \iota$  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  $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_real\_1 : \iota \Rightarrow \iota$  be given. Let  $k7\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $k9\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k4\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $np\_0 : \iota$  be given. Let  $l2\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $l2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l1\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $l1\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $l1\_rltopsp1 : \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v5\_rltopsp1 : \iota \Rightarrow o$  be given. Let  $v6\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarSKI X0 X1) \quad (2)$$

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.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\
& (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (((r1\_xxreal\_0 X1 (k13\_complex1 \\
& (k18\_euclid X0) (k12\_euclid X0))) \Rightarrow ((r1\_xxreal\_0 k6\_numbers ( \\
& k17\_euclid X0)) \vee (k3\_funct\_2 (u1\_struct\_0 (k15\_euclid np\_2)) \\
& (u1\_struct\_0 (k15\_euclid np\_2)) (k3\_jgraph\_4 X1) X0 = k19\_euclid \\
& (k8\_real\_1 (k12\_euclid X0) (k1\_real\_1 (k7\_square\_1 (k9\_real\_1 \\
& np\_1 (k4\_square\_1 (k13\_complex1 (k6\_xcmplx\_0 (k13\_complex1 \\
& (k18\_euclid X0) (k12\_euclid X0)) X1) (k9\_real\_1 np\_1 X1)))))) \\
& (k8\_real\_1 (k12\_euclid X0) (k13\_complex1 (k6\_xcmplx\_0 (k13\_complex1 \\
& (k18\_euclid X0) (k12\_euclid X0)) X1) (k9\_real\_1 np\_1 X1)))))) \wedge \\
& ((r1\_xxreal\_0 k6\_numbers (k17\_euclid X0)) \Rightarrow (k3\_funct\_2 (u1\_struct\_0 \\
& (k15\_euclid np\_2)) (u1\_struct\_0 (k15\_euclid np\_2)) (k3\_jgraph\_4 \\
& X1) X0 = X0)))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& ((v2\_xxreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge \\
& ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers))
\end{aligned} \tag{5}$$

Assume the following.

$$v1\_xboole\_0 np\_0 \tag{6}$$

Assume the following.

$$r1\_xxreal\_0 np\_0 np\_0 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.r1\_tarski X0 X0 \tag{8}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{9}$$

Assume the following.

$$\forall X0.(l2\_algstr\_0 X0) \Rightarrow ((l2\_struct\_0 X0) \wedge (l1\_algstr\_0 X0)) \tag{10}$$

Assume the following.

$$\forall X0.(l1\_rlvect\_1 X0) \Rightarrow (l2\_algstr\_0 X0) \tag{11}$$

Assume the following.

$$\forall X0.(l1\_rltopsp1 X0) \Rightarrow ((l1\_rlvect\_1 X0) \wedge (l1\_pre\_topc X0)) \tag{12}$$

Assume the following.

$$\forall X0.(l2\_struct\_0 X0) \Rightarrow (m1\_subset\_1 (k4\_struct\_0 X0) (u1\_struct\_0 X0)) \tag{13}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow((v5\_rltopsp1\ (k15\_euclid\ X0))\wedge (l1\_rltopsp1\ (k15\_euclid\ X0))) \quad (14)$$

Assume the following.

$$\forall X0.(v6\_membered\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ X0)\Rightarrow (v7\_ordinal1\ X1)) \quad (15)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k5\_numbers))\Rightarrow(v6\_membered\ X0) \quad (16)$$

**Theorem 1**

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(k4\_struct\_0\ (k15\_euclid\ np\_2) = k3\_funct\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_2))\ (u1\_struct\_0\ (k15\_euclid\ np\_2))\ (k3\_jgraph\_4\ X0)\ (k4\_struct\_0\ (k15\_euclid\ np\_2)))$$