t19_jgraph_5 (TMVyj3gcSLUuCC2hA1c3RvXn3UHsJir6A1f)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k15\_euclid : \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k18\_euclid : \iota \Rightarrow \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_jgraph\_4 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k13\_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ 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 $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_square\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (((r1\_xxreal\_0\ X1\ (k13\_complex1\ (k17\_euclid\ X0)\ (k12\_euclid\ X0))) \Rightarrow ((r1\_xxreal\_0\ (k18\_euclid\ X0)\ k6\_numbers) \vee (k3\_funct\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k5\_jgraph\_4\ X1)\ X0 = k19\_euclid\ (k8\_real\_1\ (k12\_euclid\ X0)\ (k13\_complex1\ (k6\_xcmplx\_0\ (k13\_complex1\ (k17\_euclid\ X0)\ (k12\_euclid\ X0))\ X1)\ (k9\_real\_1\ np\_\_1\ X1)))\ (k8\_real\_1\ (k12\_euclid\ X0)\ (k7\_square\_1\ (k9\_real\_1\ np\_\_1\ (k4\_square\_1\ (k13\_complex1\ (k6\_xcmplx\_0\ (k13\_complex1\ (k17\_euclid\ X0)\ (k12\_euclid\ X0))\ X1)\ (k9\_real\_1\ np\_\_1\ X1))))))))) \wedge ((r1\_xxreal\_0\ (k18\_euclid\ X0)\ k6\_numbers) \Rightarrow (k3\_funct\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k5\_jgraph\_4\ X1)\ X0 = X0)))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\neg(\neg r1\_xxreal\_0\ X0\ (k1\_real\_1\ np\_\_1))\wedge((\neg r1\_xxreal\_0\ np\_\_1\ X0)\wedge((\neg r1\_xxreal\_0\ (k18\_euclid\ X1)\ k6\_numbers)\wedge(\exists X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\wedge((X2 = k3\_funct\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k5\_jgraph\_4\ X0)\ X1)\wedge(r1\_xxreal\_0\ (k18\_euclid\ X2)\ k6\_numbers)))))))) \tag{3}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{4}$$

Assume the following.

$$\exists X0.(v1\_xboole\_0\ X0)\wedge((v1\_xcmplx\_0\ X0)\wedge((v1\_xxreal\_0\ X0)\wedge(v1\_xreal\_0\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(m1\_subset\_1\ (k18\_euclid\ X0)\ k1\_numbers) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow((r1\_xxreal\_0\ X0\ X1)\vee(r1\_xxreal\_0\ X1\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{9}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow((r1\_xxreal\_0\ k6\_numbers\ (k18\_euclid\ X1))\Rightarrow((r1\_xxreal\_0\ X0\ (k1\_real\_1\ np\_\_1))\vee((r1\_xxreal\_0\ np\_\_1\ X0)\vee(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow((X2 = k3\_funct\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k5\_jgraph\_4\ X0)\ X1)\Rightarrow(r1\_xxreal\_0\ k6\_numbers\ (k18\_euclid\ X2))))))))$$