t22_jgraph_7 (TMatoBX-ofLx6W9VbCnX37C4FcbvZgBBxcTd)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ be given. Let $k18\_euclid : \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_jordan17 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_sppol\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_jordan6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(v1\_xreal\_0\ X3) \Rightarrow (((r1\_xxreal\_0\ X2\ (k18\_euclid\ X0)) \wedge ((r1\_xxreal\_0\ (k18\_euclid\ X0)\ X3) \wedge ((r1\_xxreal\_0\ X2\ (k18\_euclid\ X1)) \wedge (r1\_xxreal\_0\ (k18\_euclid\ X1)\ X3)))) \Rightarrow ((r1\_xxreal\_0\ (k17\_euclid\ X1)\ (k17\_euclid\ X0)) \vee ((r1\_xxreal\_0\ X3\ X2) \vee (r1\_jordan6\ (k1\_sppol\_2\ (k17\_euclid\ X0)\ (k17\_euclid\ X1)\ X2\ X3)\ X0\ X1)))))))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(v1\_xreal\_0\ X3) \Rightarrow (\forall X4.(v1\_xreal\_0\ X4) \Rightarrow (((k17\_euclid\ X0 = k17\_euclid\ X1) \wedge ((r1\_xxreal\_0\ X3\ (k18\_euclid\ X0)) \wedge (r1\_xxreal\_0\ (k18\_euclid\ X1)\ X4))) \Rightarrow ((r1\_xxreal\_0\ X2\ (k17\_euclid\ X0)) \vee ((r1\_xxreal\_0\ (k18\_euclid\ X1)\ (k18\_euclid\ X0)) \vee (r1\_jordan6\ (k1\_sppol\_2\ (k17\_euclid\ X0)\ X2\ X3\ X4)\ X0\ X1)))))))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X1\ X2)) \Rightarrow (r1\_xxreal\_0\ X0\ X2)))) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow (\forall X2.(v1\_xreal\_0\ X2)\Rightarrow(\forall X3.(v1\_xreal\_0\ X3)\Rightarrow(\forall X4.(v1\_xreal\_0\ X4)\Rightarrow(\forall X5.(v1\_xreal\_0\ X5)\Rightarrow(((k17\_euclid\ X0 = X3)\wedge((k18\_euclid\ X1 = X4)\wedge((r1\_xxreal\_0\ X4\ (k18\_euclid\ X0))\wedge((r1\_xxreal\_0\ (k18\_euclid\ X0)\ X5)\wedge(r1\_xxreal\_0\ (k17\_euclid\ X1)\ X3)))))\Rightarrow((r1\_xxreal\_0\ X3\ X2)\vee((r1\_xxreal\_0\ X5\ X4)\vee((r1\_xxreal\_0\ (k17\_euclid\ X1)\ X2)\vee(r1\_jordan6\ (k1\_sppol\_2\ X2\ X3\ X4\ X5)\ X0\ X1)))))))))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v1\_xreal\_0\ X0)\wedge((v1\_xreal\_0\ X1)\wedge((v1\_xreal\_0\ X2)\wedge(v1\_xreal\_0\ X3))))\Rightarrow(m1\_subset\_1\ (k1\_sppol\_2\ X0\ X1\ X2\ X3)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \tag{5}$$

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.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow((r1\_jordan17\ X0\ X1\ X2\ X3\ X4)\Leftrightarrow(\neg(\neg(r1\_jordan6\ X0\ X1\ X2)\wedge((r1\_jordan6\ X0\ X2\ X3)\wedge(r1\_jordan6\ X0\ X3\ X4)))\wedge((\neg(r1\_jordan6\ X0\ X2\ X3)\wedge((r1\_jordan6\ X0\ X3\ X4)\wedge(r1\_jordan6\ X0\ X4\ X1)))\wedge((\neg(r1\_jordan6\ X0\ X3\ X4)\wedge((r1\_jordan6\ X0\ X4\ X1)\wedge(r1\_jordan6\ X0\ X1\ X2)))\wedge(\neg(r1\_jordan6\ X0\ X4\ X1)\wedge((r1\_jordan6\ X0\ X1\ X2)\wedge(r1\_jordan6\ X0\ X2\ X3)))))))))))) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow((r1\_xxreal\_0\ X0\ X1)\vee(r1\_xxreal\_0\ X1\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{10}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow$$
$$(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow$$
$$(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow$$
$$(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow$$
$$(\forall X4.(v1\_xreal\_0\ X4)\Rightarrow(\forall X5.(v1\_xreal\_0\ X5)\Rightarrow(\forall X6.$$
$$(v1\_xreal\_0\ X6)\Rightarrow(\forall X7.(v1\_xreal\_0\ X7)\Rightarrow(((k17\_euclid\ X0 =$$
$$X4)\wedge((k17\_euclid\ X1 = X4)\wedge((k17\_euclid\ X2 = X5)\wedge((k18\_euclid\ X3 =$$
$$X6)\wedge((r1\_xxreal\_0\ X6\ (k18\_euclid\ X0))\wedge((r1\_xxreal\_0\ (k18\_euclid$$
$$X1)\ X7)\wedge((r1\_xxreal\_0\ X6\ (k18\_euclid\ X2))\wedge((r1\_xxreal\_0\ (k18\_euclid$$
$$X2)\ X7)\wedge(r1\_xxreal\_0\ (k17\_euclid\ X3)\ X5)))))))))\Rightarrow((r1\_xxreal\_0$$
$$X5\ X4)\vee((r1\_xxreal\_0\ X7\ X6)\vee((r1\_xxreal\_0\ (k18\_euclid\ X1)\ (k18\_euclid$$
$$X0))\vee((r1\_xxreal\_0\ (k17\_euclid\ X3)\ X4)\vee(r1\_jordan17\ (k1\_sppol\_2$$
$$X4\ X5\ X6\ X7)\ X0\ X1\ X2\ X3))))))))))))$$