

## t73\_jgraph\_6

(TMFefv8BoHyCL5QWbz8tAXhzR1Vf7nysKzd)

October 27, 2020

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  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v2\_compts\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_topreal2 : \iota \Rightarrow o$  be given. Let  $r1\_jordan6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.((v1\_topreal2 X0) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 \\ (k15\_euclid np\_2)))))) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 \\ (k15\_euclid np\_2)))) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 \\ (k15\_euclid np\_2)))) \Rightarrow (\neg(X1 \in X0) \wedge ((X2 \in X0) \wedge (\neg r1\_jordan6 X0 X1 \\ X2) \wedge (\neg r1\_jordan6 X0 X2 X1)))) \end{aligned} \tag{1}$$

### Theorem 1

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2)))) \Rightarrow \\ (\forall X2.((\neg v1\_xboole\_0 X2) \wedge ((v2\_compts\_1 X2 (k15\_euclid \\ np\_2)) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid \\ np\_2)))))) \Rightarrow (((v1\_topreal2 X2) \wedge ((X0 \in X2) \wedge (X1 \in X2))) \Rightarrow ((r1\_jordan6 \\ X2 X0 X1) \vee (r1\_jordan6 X2 X1 X0)))) \end{aligned}$$