t13_jct_misc (TMJmiXXRYcxqez5aC1F1mkdca6UqNzAvm1V)

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Let $v4\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k15\_euclid : \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v9\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_rcomp\_1 : \iota \Rightarrow o$ be given. Let $k7\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_pscomp\_1 : \iota$ be given. Let $k6\_measure6 : \iota \Rightarrow \iota$ be given. Let $k2\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ 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 $k5\_numbers : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $l1\_rltopsp1 : \iota \Rightarrow o$ be given. Let $l1\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v5\_rltopsp1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow ((v9\_rltopsp1\ X0\ (k15\_euclid\ np\_\_2)) \Rightarrow (k6\_measure6\ (k7\_relset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers\ k5\_pscomp\_1\ X0) = k7\_relset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers\ k5\_pscomp\_1\ (k2\_pre\_topc\ (k15\_euclid\ np\_\_2)\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (((v4\_pre\_topc\ X1\ X0) \Rightarrow (k2\_pre\_topc\ X0\ X1 = X1)) \wedge (((v2\_pre\_topc\ X0) \wedge (k2\_pre\_topc\ X0\ X1 = X1)) \Rightarrow (v4\_pre\_topc\ X1\ X0)))) \tag{2}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_2) \wedge (m2\_subset\_1\ np\_\_2\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_2\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_2\ k1\_numbers)) \tag{3}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))\Rightarrow(v2\_rcomp\_1\ (k6\_measure6\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_rltopsp1\ X0)\Rightarrow((l1\_rlvect\_1\ X0)\wedge(l1\_pre\_topc\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow(m1\_subset\_1\ (k7\_relset\_1\ X0\ X1\ X2\ X3)\ (k1\_zfmisc\_1\ X1)) \tag{7}$$

Assume the following.

$$(v1\_funct\_1\ k5\_pscomp\_1)\wedge((v1\_funct\_2\ k5\_pscomp\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers)\wedge(m1\_subset\_1\ k5\_pscomp\_1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers)))) \tag{8}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow((v5\_rltopsp1\ (k15\_euclid\ X0))\wedge(l1\_rltopsp1\ (k15\_euclid\ X0))) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{10}$$

Theorem 1

$$\forall X0.((v4\_pre\_topc\ X0\ (k15\_euclid\ np\_\_2))\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\Rightarrow((v9\_rltopsp1\ X0\ (k15\_euclid\ np\_\_2))\Rightarrow(v2\_rcomp\_1\ (k7\_relset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ k1\_numbers\ k5\_pscomp\_1\ X0)))$$