t73_valued_2 (TMLk-mXdpBT8ngZprmKx7CUkJqFAhMD66b36)

October 27, 2020

Let $v1\_valued\_2 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_valued\_0 : \iota \Rightarrow o$ be given. Let $k69\_valued\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_valued\_2 : \iota \Rightarrow \iota$ be given. Let $k1\_valued\_2 : \iota \Rightarrow \iota$ be given. Let $k63\_valued\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k50\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k68\_valued\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k62\_valued\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k35\_valued\_1 : \iota \Rightarrow \iota$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(v1\_valued\_2\ X1) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))) \Rightarrow (\forall X3.((v1\_relat\_1\ X3) \wedge ((v1\_funct\_1\ X3) \wedge (v1\_valued\_0\ X3))) \Rightarrow (\forall X4.((v1\_relat\_1\ X4) \wedge ((v1\_funct\_1\ X4) \wedge (v1\_valued\_0\ X4))) \Rightarrow (k63\_valued\_2\ (k3\_xboole\_0\ X0\ (k9\_xtuple\_0\ X3))\ (k2\_valued\_2\ (k1\_valued\_2\ X1))\ (k63\_valued\_2\ X0\ X1\ X2\ X3)\ X4 = k63\_valued\_2\ X0\ X1\ X2\ (k18\_valued\_1\ X3\ X4)))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v1\_valued\_2\ X1) \wedge (((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))) \wedge ((v1\_relat\_1\ X3) \wedge ((v1\_funct\_1\ X3) \wedge (v1\_valued\_0\ X3))))) \Rightarrow (k69\_valued\_2\ X0\ X1\ X2\ X3 = k68\_valued\_2\ X1\ X2\ X3) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v1\_valued\_2\ X1) \wedge (((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))) \wedge ((v1\_relat\_1\ X3) \wedge ((v1\_funct\_1\ X3) \wedge (v1\_valued\_0\ X3))))) \Rightarrow (k63\_valued\_2\ X0\ X1\ X2\ X3 = k62\_valued\_2\ X1\ X2\ X3) \tag{3}$$

Assume the following.

$$\forall X0.v1\_valued\_2\ (k2\_valued\_2\ X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v1\_valued\_2\ X1)\wedge (((v1\_funct\_1\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))\wedge((v1\_relat\_1\ X3)\wedge((v1\_funct\_1\ X3)\wedge(v1\_valued\_0\ X3)))))\Rightarrow ((v1\_funct\_1\ (k63\_valued\_2\ X0\ X1\ X2\ X3))\wedge(m1\_subset\_1\ (k63\_valued\_2\ X0\ X1\ X2\ X3)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k3\_xboole\_0\ X0\ (k9\_xtuple\_0\ X3))\ (k2\_valued\_2\ (k1\_valued\_2\ X1))))))) \tag{5}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge(v1\_valued\_0\ X0)))\Rightarrow ((v1\_relat\_1\ (k35\_valued\_1\ X0))\wedge((v1\_funct\_1\ (k35\_valued\_1\ X0))\wedge(v1\_valued\_0\ (k35\_valued\_1\ X0)))) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_valued\_2\ X0)\Rightarrow(\forall X1.((v1\_relat\_1\ X1)\wedge((v5\_relat\_1\ X1\ X0)\wedge(v1\_funct\_1\ X1)))\Rightarrow(\forall X2.((v1\_relat\_1\ X2)\wedge((v1\_funct\_1\ X2)\wedge(v1\_valued\_0\ X2)))\Rightarrow(k68\_valued\_2\ X0\ X1\ X2 = k62\_valued\_2\ X0\ X1\ (k35\_valued\_1\ X2)))) \tag{7}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge(v1\_valued\_0\ X0)))\Rightarrow (\forall X1.((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_valued\_0\ X1)))\Rightarrow(k50\_valued\_1\ X0\ X1 = k18\_valued\_1\ X0\ (k35\_valued\_1\ X1))) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.k3\_xboole\_0\ X0\ X1 = k3\_xboole\_0\ X1\ X0 \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow((v4\_relat\_1\ X2\ X0)\wedge(v5\_relat\_1\ X2\ X1)) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow(v1\_relat\_1\ X2) \tag{11}$$

Theorem 1

$$\forall X0.\forall X1.(v1\_valued\_2\ X1)\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))\Rightarrow(\forall X3.((v1\_relat\_1\ X3)\wedge((v1\_funct\_1\ X3)\wedge(v1\_valued\_0\ X3)))\Rightarrow(\forall X4.((v1\_relat\_1\ X4)\wedge((v1\_funct\_1\ X4)\wedge(v1\_valued\_0\ X4)))\Rightarrow(k69\_valued\_2\ (k3\_xboole\_0\ X0\ (k9\_xtuple\_0\ X3))\ (k2\_valued\_2\ (k1\_valued\_2\ X1))\ (k63\_valued\_2\ X0\ X1\ X2\ X3)\ X4 = k63\_valued\_2\ X0\ X1\ X2\ (k50\_valued\_1\ X3\ X4))))))$$