t25_valued_2 (TMRTpTSEmzhxPsRYJYuSws-FAKLFTWKXc8ix)

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Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_valued\_0 : \iota \Rightarrow o$ be given. Let $k30\_valued\_1 : \iota \Rightarrow \iota$ be given. Let $k18\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k24\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $c5\_\_xreal\_0 : \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_arytm\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $c3\_\_xreal\_0 : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_valued\_0\ X0))) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_valued\_0\ X1))) \Rightarrow (\forall X2.(v1\_xcmplx\_0\ X2) \Rightarrow (k24\_valued\_1\ (k18\_valued\_1\ X0\ X1)\ X2 = k18\_valued\_1\ (k24\_valued\_1\ X0\ X2)\ X1))) \tag{1}$$

Assume the following.

$$(c5\_\_xreal\_0 = k4\_xcmplx\_0\ np\_\_1) \wedge (k1\_arytm\_0\ c3\_\_xreal\_0\ c5\_\_xreal\_0 = k6\_numbers) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_valued\_0\ X0))) \wedge ((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_valued\_0\ X1)))) \Rightarrow ((v1\_relat\_1\ (k18\_valued\_1\ X0\ X1)) \wedge ((v1\_funct\_1\ (k18\_valued\_1\ X0\ X1)) \wedge (v1\_valued\_0\ (k18\_valued\_1\ X0\ X1)))) \tag{3}$$

Assume the following.

$$m1\_subset\_1\ c5\_\_xreal\_0\ k1\_numbers \tag{4}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_valued\_0\ X0))) \Rightarrow (k30\_valued\_1\ X0 = k24\_valued\_1\ X0\ (k4\_xcmplx\_0\ np\_\_1)) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{6}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge(v1\_valued\_0\ X0)))\Rightarrow (\forall X1.((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_valued\_0\ X1)))\Rightarrow(k30\_valued\_1\ (k18\_valued\_1\ X0\ X1) = k18\_valued\_1\ (k30\_valued\_1\ X0)\ X1))$$