t32_rfunct_1 (TMFpgaEdbBqRpiBRjEodngy-JAo9DCkYL5Xp)

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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 $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k24\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_rfunct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_rfunct\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_valued\_0\ X0))) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_valued\_0\ X1))) \Rightarrow (k1\_rfunct\_1\ X0\ X1 = k18\_valued\_1\ X0\ (k4\_rfunct\_1\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_valued\_0\ X0))) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_valued\_0\ X1))) \Rightarrow (\forall X2.(v1\_xcmplx\_0\ X2) \Rightarrow (k24\_valued\_1\ (k18\_valued\_1\ X0\ X1)\ X2 = k18\_valued\_1\ (k24\_valued\_1\ X0\ X2)\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_valued\_0\ X0))) \wedge (v1\_xcmplx\_0\ X1)) \Rightarrow ((v1\_relat\_1\ (k24\_valued\_1\ X0\ X1)) \wedge ((v1\_funct\_1\ (k24\_valued\_1\ X0\ X1)) \wedge (v1\_valued\_0\ (k24\_valued\_1\ X0\ X1)))) \tag{3}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_valued\_0\ X0))) \Rightarrow ((v1\_relat\_1\ (k4\_rfunct\_1\ X0)) \wedge ((v1\_funct\_1\ (k4\_rfunct\_1\ X0)) \wedge (v1\_valued\_0\ (k4\_rfunct\_1\ X0)))) \tag{4}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_valued\_0\ X0))) \Rightarrow ((v1\_relat\_1\ (k4\_rfunct\_1\ X0)) \wedge (v1\_funct\_1\ (k4\_rfunct\_1\ X0))) \tag{5}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge(v1\_valued\_0\ X0)))\Rightarrow (\forall X1.((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_valued\_0\ X1)))\Rightarrow(\forall X2.(v1\_xcmplx\_0\ X2)\Rightarrow(k24\_valued\_1\ (k1\_rfunct\_1\ X0\ X1)\ X2 = k1\_rfunct\_1\ (k24\_valued\_1\ X0\ X2)\ X1)))$$