

## t10\_fvaluat1

(TMbn9nuNLSWJCQ7tTE7HHTp7MAzJkK7mFRC)

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Let  $v1\_fvaluat1 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $k3\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xxreal\_0 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k2\_xxreal\_0 : \iota$  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  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $k8\_mesfunc1 : \iota$  be given. Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow ((\neg r1\_xxreal\_0 X1 X0) \Rightarrow (r1\_xxreal\_0 (k3\_real\_1 X0 np\_1) X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (r1\_xxreal\_0 X0 k1\_xxreal\_0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\neg(\neg X0 \in k1\_numbers) \wedge ((X0 \neq k1\_xxreal\_0) \wedge (X0 \neq k2\_xxreal\_0))) \quad (4)$$

Assume the following.

$$((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0) \wedge (m1\_subset\_1 X1 k1\_numbers)) \Rightarrow (k3\_real\_1 X0 X1 = k2\_xcmplx\_0 X0 X1) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((v1\_xreal\_0 X0)\wedge \\ & ((v1\_xreal\_0 X1)\wedge((v1\_xcmplx\_0 X2)\wedge(v1\_xcmplx\_0 X3))))\Rightarrow((( \\ & X0 = X2)\wedge(X1 = X3))\Rightarrow(k1\_xxreal\_3 X0 X1 = k2\_xcmplx\_0 X2 X3)) \end{aligned} \quad (7)$$

Assume the following.

$$(v1\_xreal\_0 k8\_mesfunc1)\wedge((v2\_xxreal\_0 k8\_mesfunc1)\wedge(v1\_fvaluat1 k8\_mesfunc1)) \quad (8)$$

Assume the following.

$$\neg v1\_fvaluat1 k2\_xxreal\_0 \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0)\wedge(v1\_xxreal\_0 X1))\Rightarrow(v1\_xxreal\_0 (k1\_xxreal\_3 X0 X1)) \quad (10)$$

Assume the following.

$$k8\_mesfunc1 = np\_1 \quad (11)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0)\Rightarrow(v1\_xcmplx\_0 X0) \quad (12)$$

Assume the following.

$$\forall X0.((v1\_xreal\_0 X0)\wedge(v1\_fvaluat1 X0))\Rightarrow(v1\_int\_1 X0) \quad (13)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers)\Rightarrow(v1\_xreal\_0 X0) \quad (14)$$

Assume the following.

$$\forall X0.(v1\_fvaluat1 X0)\Rightarrow(v1\_xxreal\_0 X0) \quad (15)$$

**Theorem 1**

$$\forall X0.(v1\_fvaluat1 X0)\Rightarrow(\forall X1.(v1\_fvaluat1 X1)\Rightarrow((\neg r1\_xxreal\_0 X1 X0)\Rightarrow(r1\_xxreal\_0 (k1\_xxreal\_3 X0 np\_1) X1)))$$