t32_weddwitt (TMVkBBi2ev8PD5zrbsUib2bJsmNNxs1vaHf)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v6\_struct\_0 : \iota \Rightarrow o$ be given. Let $v8\_struct\_0 : \iota \Rightarrow o$ be given. Let $v13\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v33\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v2\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v4\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_group\_1 : \iota \Rightarrow o$ be given. Let $v4\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v5\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $l6\_algstr\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_vectsp\_9 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_weddwitt : \iota \Rightarrow \iota$ be given. Let $k6\_weddwitt : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v3\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k7\_group\_1 : \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k4\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_card\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_uniroots : \iota \Rightarrow \iota$ be given. Let $k21\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_0 : \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $k1\_card\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v36\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v5\_group\_1 : \iota \Rightarrow o$ be given. Let $v15\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v2\_group\_1 : \iota \Rightarrow o$ be given. Let $v1\_card\_1 : \iota \Rightarrow o$ be given. Let $l2\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l5\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l3\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v7\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v8\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v9\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v10\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v11\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X0) \vee ((v2\_xxreal\_0\ X1) \vee (v3\_xxreal\_0\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(\forall X1.(v1\_xreal\_0\ X1)\Rightarrow(\neg(r1\_xxreal\_0\ X0\ X1)\wedge((\neg v2\_xxreal\_0\ X1)\wedge(v2\_xxreal\_0\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v8\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0)))\Rightarrow(r1\_xxreal\_0\ np\_\_1\ (k7\_group\_1\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(\forall X1.(v7\_ordinal1\ X1)\Rightarrow(k4\_prepower\ X0\ X1 = k1\_newton\ X0\ X1)) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(k4\_prepower\ X0\ k6\_numbers = np\_\_1) \tag{6}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((\neg v6\_struct\_0\ X0)\wedge((v8\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v33\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v3\_group\_1\ X0)\wedge((v4\_vectsp\_1\ X0)\wedge((v5\_vectsp\_1\ X0)\wedge(l6\_algstr\_0\ X0))))))))))\Rightarrow(k5\_card\_1\ (u1\_struct\_0\ X0) = k1\_newton\ (k5\_card\_1\ (u1\_struct\_0\ (k4\_weddwitt\ X0)))\ (k1\_vectsp\_9\ (k4\_weddwitt\ X0)\ (k6\_weddwitt\ X0))) \tag{7}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((\neg v6\_struct\_0\ X0)\wedge((v8\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v33\_algstr\_0\ X0)\wedge((v3\_group\_1\ X0)\wedge((v4\_vectsp\_1\ X0)\wedge((v5\_vectsp\_1\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge(l6\_algstr\_0\ X0))))))))))\Rightarrow(k7\_group\_1\ (k1\_uniroots\ X0) = k21\_binop\_2\ (k7\_group\_1\ X0)\ np\_\_1) \tag{8}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_1)\wedge(m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_1\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{9}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{10}$$

Assume the following.

$$k4\_xcmplx\_0\ np\_\_0 = np\_\_0 \tag{11}$$

Assume the following.

$$k6\_xcmplx\_0\ np\_\_1\ np\_\_1 = np\_\_0 \tag{12}$$

Assume the following.

$$\forall X0.((v8\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow(k7\_group\_1\ X0 = k7\_struct\_0\ X0) \tag{13}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{14}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0)\Rightarrow(k5\_card\_1\ X0 = k1\_card\_1\ X0) \tag{15}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0)\wedge(v1\_int\_1\ X1))\Rightarrow(k21\_binop\_2\ X0\ X1 = k6\_xcmplx\_0\ X0\ X1) \tag{16}$$

Assume the following.

$$\exists X0.(v1\_xboole\_0\ X0)\wedge((v1\_xcmplx\_0\ X0)\wedge((v1\_xxreal\_0\ X0)\wedge(v1\_xreal\_0\ X0))) \tag{17}$$

Assume the following.

$$\forall X0.((v8\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow(v1\_finset\_1\ (u1\_struct\_0\ X0)) \tag{18}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((\neg v6\_struct\_0\ X0)\wedge((v8\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v33\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v3\_group\_1\ X0)\wedge((v4\_vectsp\_1\ X0)\wedge((v5\_vectsp\_1\ X0)\wedge(l6\_algstr\_0\ X0))))))))))\Rightarrow((\neg v2\_struct\_0\ (k4\_weddwitt\ X0))\wedge((\neg v6\_struct\_0\ (k4\_weddwitt\ X0))\wedge((v8\_struct\_0\ (k4\_weddwitt\ X0))\wedge((v13\_algstr\_0\ (k4\_weddwitt\ X0))\wedge((v33\_algstr\_0\ (k4\_weddwitt\ X0))\wedge((v36\_algstr\_0\ (k4\_weddwitt\ X0))\wedge((v2\_rlvect\_1\ (k4\_weddwitt\ X0))\wedge((v3\_rlvect\_1\ (k4\_weddwitt\ X0))\wedge((v4\_rlvect\_1\ (k4\_weddwitt\ X0))\wedge((v3\_group\_1\ (k4\_weddwitt\ X0))\wedge((v5\_group\_1\ (k4\_weddwitt\ X0))\wedge((v4\_vectsp\_1\ (k4\_weddwitt\ X0))\wedge(v5\_vectsp\_1\ (k4\_weddwitt\ X0))))))))))))) \tag{19}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((\neg v6\_struct\_0\ X0)\wedge((v8\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v33\_algstr\_0\ X0)\wedge((v3\_group\_1\ X0)\wedge((v4\_vectsp\_1\ X0)\wedge((v5\_vectsp\_1\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge(l6\_algstr\_0\ X0))))))))))\Rightarrow((\neg v2\_struct\_0\ (k1\_uniroots\ X0))\wedge((v8\_struct\_0\ (k1\_uniroots\ X0))\wedge((v15\_algstr\_0\ (k1\_uniroots\ X0))\wedge((v2\_group\_1\ (k1\_uniroots\ X0))\wedge(v3\_group\_1\ (k1\_uniroots\ X0))))))) \tag{20}$$

Assume the following.

$$\forall X0.((v8\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow((v7\_ordinal1\ (k7\_struct\_0\ X0))\wedge(v1\_card\_1\ (k7\_struct\_0\ X0))) \tag{21}$$

Assume the following.

$$\forall X0.((\neg v3\_xxreal\_0\ X0)\wedge(v1\_xreal\_0\ X0))\Rightarrow((v1\_xcmplx\_0\ (k4\_xcmplx\_0\ X0))\wedge(\neg v2\_xxreal\_0\ (k4\_xcmplx\_0\ X0))) \tag{22}$$

Assume the following.

$$\forall X0.(l6\_algstr\_0\ X0)\Rightarrow((l2\_algstr\_0\ X0)\wedge(l5\_algstr\_0\ X0)) \tag{23}$$

Assume the following.

$$\forall X0.(l3\_algstr\_0\ X0)\Rightarrow(l1\_struct\_0\ X0) \tag{24}$$

Assume the following.

$$\forall X0.(l2\_algstr\_0\ X0)\Rightarrow((l2\_struct\_0\ X0)\wedge(l1\_algstr\_0\ X0)) \tag{25}$$

Assume the following.

$$\forall X0.(l1\_algstr\_0\ X0)\Rightarrow(l1\_struct\_0\ X0) \tag{26}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((\neg v6\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v33\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v3\_group\_1\ X0)\wedge((v4\_vectsp\_1\ X0)\wedge((v5\_vectsp\_1\ X0)\wedge(l6\_algstr\_0\ X0))))))))))\Rightarrow((\neg v2\_struct\_0\ (k6\_weddwitt\ X0))\wedge((v13\_algstr\_0\ (k6\_weddwitt\ X0))\wedge((v2\_rlvect\_1\ (k6\_weddwitt\ X0))\wedge((v3\_rlvect\_1\ (k6\_weddwitt\ X0))\wedge((v4\_rlvect\_1\ (k6\_weddwitt\ X0))\wedge((v7\_vectsp\_1\ (k6\_weddwitt\ X0)\ (k4\_weddwitt\ X0))\wedge((v8\_vectsp\_1\ (k6\_weddwitt\ X0)\ (k4\_weddwitt\ X0))\wedge((v9\_vectsp\_1\ (k6\_weddwitt\ X0)\ (k4\_weddwitt\ X0))\wedge((v10\_vectsp\_1\ (k6\_weddwitt\ X0)\ (k4\_weddwitt\ X0))\wedge((v11\_vectsp\_1\ (k6\_weddwitt\ X0)\ (k4\_weddwitt\ X0))\wedge(l1\_vectsp\_1\ (k6\_weddwitt\ X0)\ (k4\_weddwitt\ X0)))))))))))) \tag{27}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((\neg v6\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v33\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v3\_group\_1\ X0)\wedge((v4\_vectsp\_1\ X0)\wedge((v5\_vectsp\_1\ X0)\wedge(l6\_algstr\_0\ X0))))))))))\Rightarrow((\neg v2\_struct\_0\ (k4\_weddwitt\ X0))\wedge((\neg v6\_struct\_0\ (k4\_weddwitt\ X0))\wedge((v13\_algstr\_0\ (k4\_weddwitt\ X0))\wedge((v33\_algstr\_0\ (k4\_weddwitt\ X0))\wedge((v36\_algstr\_0\ (k4\_weddwitt\ X0))\wedge((v2\_rlvect\_1\ (k4\_weddwitt\ X0))\wedge((v3\_rlvect\_1\ (k4\_weddwitt\ X0))\wedge((v4\_rlvect\_1\ (k4\_weddwitt\ X0))\wedge((v3\_group\_1\ (k4\_weddwitt\ X0))\wedge((v5\_group\_1\ (k4\_weddwitt\ X0))\wedge((v4\_vectsp\_1\ (k4\_weddwitt\ X0))\wedge((v5\_vectsp\_1\ (k4\_weddwitt\ X0))\wedge(l6\_algstr\_0\ (k4\_weddwitt\ X0))))))))))))) \tag{28}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0)\wedge((\neg v6\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v33\_algstr\_0\ X0)\wedge((v3\_group\_1\ X0)\wedge((v5\_group\_1\ X0)\wedge((v4\_vectsp\_1\ X0)\wedge((v5\_vectsp\_1\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge(l6\_algstr\_0\ X0))))))))))))\wedge((\neg v2\_struct\_0\ X1)\wedge((v13\_algstr\_0\ X1)\wedge((v8\_vectsp\_1\ X1\ X0)\wedge((v9\_vectsp\_1\ X1\ X0)\wedge((v10\_vectsp\_1\ X1\ X0)\wedge((v11\_vectsp\_1\ X1\ X0)\wedge((v2\_rlvect\_1\ X1)\wedge((v3\_rlvect\_1\ X1)\wedge((v4\_rlvect\_1\ X1)\wedge(l1\_vectsp\_1\ X1\ X0))))))))))\Rightarrow(v7\_ordinal1\ (k1\_vectsp\_9\ X0\ X1)) \tag{29}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((\neg v6\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v33\_algstr\_0\ X0)\wedge((v3\_group\_1\ X0)\wedge((v4\_vectsp\_1\ X0)\wedge((v5\_vectsp\_1\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge(l6\_algstr\_0\ X0))))))))))\Rightarrow((\neg v2\_struct\_0\ (k1\_uniroots\ X0))\wedge((v15\_algstr\_0\ (k1\_uniroots\ X0))\wedge((v2\_group\_1\ (k1\_uniroots\ X0))\wedge((v3\_group\_1\ (k1\_uniroots\ X0))\wedge(l3\_algstr\_0\ (k1\_uniroots\ X0)))))) \tag{30}$$

Assume the following.

$$\forall X0.(l1\_struct\_0\ X0)\Rightarrow(k7\_struct\_0\ X0 = k1\_card\_1\ (u1\_struct\_0\ X0)) \tag{31}$$

Assume the following.

$$\forall X0.((v1\_xxreal\_0\ X0)\wedge(v2\_xxreal\_0\ X0))\Rightarrow((\neg v1\_xboole\_0\ X0)\wedge((v1\_xxreal\_0\ X0)\wedge(\neg v3\_xxreal\_0\ X0))) \tag{32}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow((v7\_ordinal1\ X0)\wedge(\neg v3\_xxreal\_0\ X0)) \tag{33}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(v1\_xreal\_0\ X0) \tag{34}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(v1\_int\_1\ X0) \tag{35}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((\neg v6\_struct\_0\ X0)\wedge((v8\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v33\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v3\_group\_1\ X0)\wedge((v4\_vectsp\_1\ X0)\wedge((v5\_vectsp\_1\ X0)\wedge(l6\_algstr\_0\ X0))))))))))\Rightarrow(\neg r1\_xxreal\_0\ (k1\_vectsp\_9\ (k4\_weddwitt\ X0)\ (k6\_weddwitt\ X0))\ k6\_numbers)$$