t34_binari_4 (TMXP7wrHK45hArdUhTnJTPxYzLKhzfzNS3k)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_margrel1 : \iota$ be given. Let $k1\_binari\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k8\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k2\_binari\_4 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $np\_\_0 : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_int\_2 : \iota \Rightarrow \iota$ be given. Let $k16\_complex1 : \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $k20\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_series\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k1\_binari\_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\exists X2.\ (m1\_subset\_1\ X2\ k6\_margrel1) \wedge (k2\_binari\_4\ (k23\_binop\_2\ X0\ np\_\_1)\ X1 = k8\_finseq\_1\ k6\_margrel1\ (k2\_binari\_4\ X0\ X1)\ (k12\_finseq\_1\ k6\_margrel1\ X2)))) \tag{3}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_1) \wedge (m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{4}$$

Assume the following.

$$(m2\_subset\_1\ np\_\_0\ k1\_numbers\ k5\_numbers)\wedge((m1\_subset\_1\ np\_\_0\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_0\ k1\_numbers)) \tag{5}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{6}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{7}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0)\wedge(v7\_ordinal1\ X1))\Rightarrow(k23\_binop\_2\ X0\ X1 = k2\_xcmplx\_0\ X0\ X1) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0)\Rightarrow(k1\_int\_2\ X0 = k16\_complex1\ X0) \tag{10}$$

Assume the following.

$$\exists X0.(v1\_xboole\_0\ X0)\wedge(v1\_xxreal\_0\ X0) \tag{11}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0)\wedge(v7\_ordinal1\ X1))\Rightarrow(v7\_ordinal1\ (k2\_xcmplx\_0\ X0\ X1)) \tag{13}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.(v1\_int\_1\ X1)\Rightarrow(((\neg r1\_xxreal\_0\ k6\_numbers\ X1)\Rightarrow(k2\_binari\_4\ X0\ X1 = k1\_binari\_3\ X0\ (k1\_int\_2\ (k20\_binop\_2\ (k5\_series\_1\ np\_\_2\ (k1\_binari\_4\ X0\ (k1\_int\_2\ X1)))\ X1))))\wedge((r1\_xxreal\_0\ k6\_numbers\ X1)\Rightarrow(k2\_binari\_4\ X0\ X1 = k1\_binari\_3\ X0\ (k1\_int\_2\ X1))))) \tag{14}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(((r1\_xxreal\_0\ k6\_numbers\ X0)\Rightarrow(k16\_complex1\ X0 = X0))\wedge((\neg r1\_xxreal\_0\ k6\_numbers\ X0)\Rightarrow(k16\_complex1\ X0 = k4\_xcmplx\_0\ X0))) \tag{15}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (v7\_ordinal1\ X0) \tag{16}$$

Assume the following.

$$\forall X0.((v1\_xxreal\_0\ X0) \wedge (v2\_xxreal\_0\ X0)) \Rightarrow ((\neg v1\_xboole\_0\ X0) \wedge ((v1\_xxreal\_0\ X0) \wedge (\neg v3\_xxreal\_0\ X0))) \tag{17}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((v7\_ordinal1\ X0) \wedge (\neg v3\_xxreal\_0\ X0)) \tag{18}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (v1\_xreal\_0\ X0) \tag{19}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (v1\_int\_1\ X0) \tag{20}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xreal\_0\ X0) \tag{21}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (\exists X2.\ (m1\_subset\_1\ X2\ k6\_margrel1) \wedge (k1\_binari\_3\ (k23\_binop\_2\ X0\ np\_\_1)\ X1 = k8\_finseq\_1\ k6\_margrel1\ (k1\_binari\_3\ X0\ X1)\ (k12\_finseq\_1\ k6\_margrel1\ X2))))$$