t34_toprealb (TMHZL6ijPjoQMYHo3fqbih5eNwBpcCjmiUs)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k4\_int\_1 : \iota \Rightarrow \iota$ be given. Let $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_toprealb : \iota$ be given. Let $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_int\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_int\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (k1\_funct\_1\ k12\_toprealb\ X1 = k1\_funct\_1\ k12\_toprealb\ (k2\_xcmplx\_0\ X1\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0) \wedge (v1\_xcmplx\_0\ X1)) \Rightarrow (k2\_xcmplx\_0\ X0\ (k4\_xcmplx\_0\ X1) = k6\_xcmplx\_0\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (k4\_int\_1\ X0 = k3\_int\_1\ X0) \tag{3}$$

Assume the following.

$$k1\_funct\_1\ k12\_toprealb\ (k10\_real\_1\ np\_\_1\ np\_\_2) = k19\_euclid\ (k1\_real\_1\ np\_\_1)\ k6\_numbers \tag{4}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow ((v1\_xcmplx\_0\ (k4\_xcmplx\_0\ X0)) \wedge (v1\_int\_1\ (k4\_xcmplx\_0\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (v1\_int\_1\ (k1\_int\_1\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (k3\_int\_1\ X0 = k6\_xcmplx\_0\ X0\ (k1\_int\_1\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (v1\_xreal\_0\ X0) \tag{9}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((k4\_int\_1\ X0 = k10\_real\_1\ np\_\_1\ np\_\_2) \Rightarrow (k1\_funct\_1\ k12\_toprealb\ X0 = k19\_euclid\ (k1\_real\_1\ np\_\_1)\ k6\_numbers))$$