t74_quaterni (TMMkf8Fqq1ZDrKKSp2CyP98RboFYKCxKbEr)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_square\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (r1\_xxreal\_0\ k6\_numbers\ (k2\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1)))) \tag{1}$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (v1\_xreal\_0\ (k6\_square\_1\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((r1\_xxreal\_0\ k6\_numbers\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((X1 = k6\_square\_1\ X0) \Leftrightarrow ((r1\_xxreal\_0\ k6\_numbers\ X1) \wedge (k3\_square\_1\ X1 = X0))))) \tag{5}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(v1\_xreal\_0\ X3) \Rightarrow (r1\_xxreal\_0\ k6\_numbers\ (k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1))\ (k3\_square\_1\ X2))\ (k3\_square\_1\ X3))))))$$