t6_series_5 (TMQHuKgxkp3XJSEFG2JEgYG8uXUkYxtTUi8)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13\_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_square\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ 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 $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_xreal\_0\ X0) \wedge (v2\_xxreal\_0\ X0)) \Rightarrow (\forall X1.((v1\_xreal\_0\ X1) \wedge (v2\_xxreal\_0\ X1)) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X1\ X0) \wedge (r1\_xxreal\_0\ (k13\_complex1\ (k2\_xcmplx\_0\ X1\ (k6\_square\_1\ (k13\_complex1\ (k2\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1))\ np\_\_2)))\ (k2\_xcmplx\_0\ X0\ (k6\_square\_1\ (k13\_complex1\ (k2\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1))\ np\_\_2))))\ (k6\_square\_1\ (k13\_complex1\ X0\ X1))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_xreal\_0\ X0) \wedge (v2\_xxreal\_0\ X0)) \Rightarrow (\forall X1.((v1\_xreal\_0\ X1) \wedge (v2\_xxreal\_0\ X1)) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X1\ X0) \wedge (r1\_xxreal\_0\ (k6\_square\_1\ (k13\_complex1\ X0\ X1))\ (k13\_complex1\ X0\ X1)))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2. (v1\_xxreal\_0\ X2) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X1\ X2)) \Rightarrow (r1\_xxreal\_0\ X0\ X2)))) \tag{3}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_2) \wedge (m2\_subset\_1\ np\_\_2\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_2\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_2\ k1\_numbers)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0) \wedge (v1\_xcmplx\_0\ X1)) \Rightarrow (k13\_complex1\ X0\ X1 = k7\_xcmplx\_0\ X0\ X1) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0)\wedge(v1\_xreal\_0\ X1))\Rightarrow(v1\_xreal\_0\ (k7\_xcmplx\_0\ X0\ X1)) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0)\wedge(v1\_xreal\_0\ X1))\Rightarrow(v1\_xreal\_0\ (k2\_xcmplx\_0\ X0\ X1)) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xreal\_0\ (k3\_square\_1\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xreal\_0\ (k6\_square\_1\ X0)) \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow((r1\_xxreal\_0\ X0\ X1)\vee(r1\_xxreal\_0\ X1\ X0)) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{11}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xcmplx\_0\ X0) \tag{12}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{13}$$

Theorem 1

$$\forall X0.((v1\_xreal\_0\ X0)\wedge(v2\_xxreal\_0\ X0))\Rightarrow(\forall X1.((v1\_xreal\_0\ X1)\wedge(v2\_xxreal\_0\ X1))\Rightarrow(\neg(\neg r1\_xxreal\_0\ X1\ X0)\wedge(r1\_xxreal\_0\ (k13\_complex1\ (k2\_xcmplx\_0\ X1\ (k6\_square\_1\ (k13\_complex1\ (k2\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1))\ np\_\_2)))\ (k2\_xcmplx\_0\ X0\ (k6\_square\_1\ (k13\_complex1\ (k2\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1))\ np\_\_2))))\ (k13\_complex1\ X0\ X1))))$$