

## t11\_series\_5

(TMXWU5n5xaGUidWqWttTdQKGwxoNCRpUNDK)

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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  $k6\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k13\_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  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.

$$\begin{aligned} \forall X0.((v1\_xreal\_0 X0) \wedge (v2\_xxreal\_0 X0)) \Rightarrow (\forall X1. & \\ (v1\_xreal\_0 X1) \wedge (v2\_xxreal\_0 X1)) \Rightarrow (r1\_xxreal\_0 (k13\_complex1 & \\ (k2\_xcmplx\_0 X0 X1) np\_2) (k6\_square\_1 (k13\_complex1 (k2\_xcmplx\_0 & \\ (k3\_square\_1 X0) (k3\_square\_1 X1)) np\_2)))) & \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2. & \\ (v1\_xxreal\_0 X2) \Rightarrow (((r1\_xxreal\_0 X0 X1) \wedge (r1\_xxreal\_0 X1 X2)) \Rightarrow & \\ (r1\_xxreal\_0 X0 X2)))) & \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1\_xreal\_0 X0) \wedge (v2\_xxreal\_0 X0)) \Rightarrow (\forall X1.( & \\ (v1\_xreal\_0 X1) \wedge (v2\_xxreal\_0 X1)) \Rightarrow (r1\_xxreal\_0 (k6\_square\_1 & \\ (k3\_xcmplx\_0 X0 X1)) (k13\_complex1 (k2\_xcmplx\_0 X0 X1) np\_2))) & \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} ((v2\_xxreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge & \\ ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers)) & \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v1\_xcmplx\_0 X0) \wedge (v1\_xcmplx\_0 X1)) \Rightarrow ( & \\ k13\_complex1 X0 X1 = k7\_xcmplx\_0 X0 X1) & \end{aligned} \quad (5)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0)\wedge(v1\_xreal\_0 X1))\Rightarrow(v1\_xreal\_0 (k3\_xcmplx\_0 X0 X1)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0)\wedge(v1\_xreal\_0 X1))\Rightarrow(v1\_xreal\_0 (k2\_xcmplx\_0 X0 X1)) \quad (8)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0)\Rightarrow(v1\_xreal\_0 (k3\_square\_1 X0)) \quad (9)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0)\Rightarrow(v1\_xreal\_0 (k6\_square\_1 X0)) \quad (10)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0)\Rightarrow(v1\_xxreal\_0 X0) \quad (11)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0)\Rightarrow(v1\_xcmplx\_0 X0) \quad (12)$$

Assume the following.

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

**Theorem 1**

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