t5_wsierp_1 (TMJKoRdpHfKqZmfbLAaRzHC5Nbwcf2J2oht)

October 27, 2020

Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.\ (v1\_int\_1\ X2) \Rightarrow (((r1\_int\_1\ X0\ X1) \wedge (r1\_int\_1\ X0\ X2)) \Rightarrow (r1\_int\_1\ X0\ (k2\_xcmplx\_0\ X1\ X2))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.\ (v1\_int\_1\ X2) \Rightarrow ((r1\_int\_1\ X0\ X1) \Rightarrow (r1\_int\_1\ X0\ (k3\_xcmplx\_0\ X1\ X2))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0) \wedge (v1\_int\_1\ X1)) \Rightarrow (v1\_int\_1\ (k3\_xcmplx\_0\ X0\ X1)) \tag{3}$$

Theorem 1

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.\ (v1\_int\_1\ X2) \Rightarrow (\forall X3.(v1\_int\_1\ X3) \Rightarrow (\forall X4.(v1\_int\_1\ X4) \Rightarrow (((r1\_int\_1\ X0\ X1) \wedge (r1\_int\_1\ X0\ X2)) \Rightarrow (r1\_int\_1\ X0\ (k2\_xcmplx\_0\ (k3\_xcmplx\_0\ X1\ X3)\ (k3\_xcmplx\_0\ X2\ X4)))))))))$$