t17_metric_3 (TMXKZ1JnyoLboiwknnKoQVcDCrAKXv23XMP)

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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 $k3\_square\_1 : \iota \Rightarrow \iota$ 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.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(v1\_xreal\_0\ X3) \Rightarrow (\forall X4.(v1\_xreal\_0\ X4) \Rightarrow (\forall X5.(v1\_xreal\_0\ X5) \Rightarrow (r1\_xxreal\_0\ (k3\_square\_1\ (k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k3\_xcmplx\_0\ X0\ X1)\ (k3\_xcmplx\_0\ X2\ X3))\ (k3\_xcmplx\_0\ X4\ X5)))\ (k3\_xcmplx\_0\ (k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X2))\ (k3\_square\_1\ X4))\ (k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k3\_square\_1\ X1)\ (k3\_square\_1\ X3))\ (k3\_square\_1\ X5))))))))) \tag{1}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(v1\_xreal\_0\ X3) \Rightarrow (\forall X4.(v1\_xreal\_0\ X4) \Rightarrow (\forall X5.(v1\_xreal\_0\ X5) \Rightarrow (r1\_xxreal\_0\ (k3\_square\_1\ (k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k3\_xcmplx\_0\ X0\ X2)\ (k3\_xcmplx\_0\ X1\ X3))\ (k3\_xcmplx\_0\ X4\ X5)))\ (k3\_xcmplx\_0\ (k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k3\_square\_1\ X0)\ (k3\_square\_1\ X1))\ (k3\_square\_1\ X4))\ (k2\_xcmplx\_0\ (k2\_xcmplx\_0\ (k3\_square\_1\ X2)\ (k3\_square\_1\ X3))\ (k3\_square\_1\ X5)))))))))$$