t6_turing_1 (TMQm5fpJiy3Eaj1ZjUf7ftJ9w2EcJYbthcP)

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Let $l1\_turing\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u2\_turing\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_numbers : \iota$ be given. Let $k9\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_turing\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_mcart\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u5\_turing\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_turing\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k8\_turing\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_turing\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_turing\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_turing\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_mcart\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_mcart\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l1\_turing\_1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0)))) \Rightarrow (((k1\_mcart\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0)))\ X1 \neq u5\_turing\_1\ X0) \Rightarrow (k9\_turing\_1\ X0\ X1 = k3\_xtuple\_0\ (k1\_mcart\_1\ (u2\_turing\_1\ X0)\ (u1\_turing\_1\ X0)\ (k8\_domain\_1\ k1\_numbers\ (k1\_real\_1\ np\_\_1)\ k6\_numbers\ np\_\_1)\ (k8\_turing\_1\ X0\ X1))\ (k2\_xcmplx\_0\ (k7\_turing\_1\ X0\ X1)\ (k6\_turing\_1\ X0\ (k8\_turing\_1\ X0\ X1)))\ (k5\_turing\_1\ X0\ (k3\_mcart\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0))\ X1)\ (k7\_turing\_1\ X0\ X1)\ (k2\_mcart\_1\ (u2\_turing\_1\ X0)\ (u1\_turing\_1\ X0)\ (k8\_domain\_1\ k1\_numbers\ (k1\_real\_1\ np\_\_1)\ k6\_numbers\ np\_\_1)\ (k8\_turing\_1\ X0\ X1))))) \wedge ((k1\_mcart\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0))\ X1 = u5\_turing\_1\ X0) \Rightarrow (k9\_turing\_1\ X0\ X1 = X1))))) \tag{1}$$

Theorem 1

$$\forall X0.(l1\_turing\_1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k3\_zfmisc\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0)))) \Rightarrow ((k1\_mcart\_1\ (u2\_turing\_1\ X0)\ k4\_numbers\ (k9\_funct\_2\ k4\_numbers\ (u1\_turing\_1\ X0))\ X1 = u5\_turing\_1\ X0) \Rightarrow (X1 = k9\_turing\_1\ X0\ X1)))$$