t52_power (TMMWvG-PLwiXJr9MWCsYHCqtbdu5YjWULcQR)

October 27, 2020

Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k5\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ 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. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (k3\_power\ X0\ np\_\_1 = X0) \tag{1}$$

Assume the following.

$$\begin{gathered}((v2\_xxreal\_0\ np\_\_1) \wedge (m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers)) \wedge \\ ((m1\_subset\_1\ np\_\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_1\ k1\_numbers))\end{gathered} \tag{2}$$

Assume the following.

$$\begin{gathered}\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\neg(\neg \\ r1\_xxreal\_0\ X0\ k6\_numbers) \wedge ((X0 \neq np\_\_1) \wedge ((\neg r1\_xxreal\_0\ X1\ k6\_numbers) \wedge \\ (\neg \forall X2.(v1\_xreal\_0\ X2) \Rightarrow ((X2 = k5\_power\ X0\ X1) \Leftrightarrow (k3\_power \\ X0\ X2 = X1)))))))\end{gathered} \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xreal\_0\ X0) \tag{4}$$

Theorem 1

$$\begin{gathered}\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X0\ k6\_numbers) \wedge (\\ (X0 \neq np\_\_1) \wedge (k5\_power\ X0\ X0 \neq np\_\_1)))\end{gathered}$$