t17_power (TM-bAd8Z3cy1XBtH9aMgAbwDKCZSJ1sa6n5J)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ 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 $v1\_abian : \iota \Rightarrow o$ be given. Let $k1\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $np\_\_0 : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow ((\neg (\neg (r1\_xxreal\_0\ np\_\_1\ X1) \wedge (r1\_xxreal\_0\ k6\_numbers\ X0)) \wedge (v1\_abian\ X1)) \Rightarrow ((k1\_newton\ (k1\_power\ X1\ X0)\ X1 = X0) \wedge (k1\_power\ X1\ (k1\_newton\ X0\ X1) = X0)))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X1\ X2)) \Rightarrow (r1\_xxreal\_0\ X0\ X2)))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X1\ X0)) \Rightarrow (X0 = X1))) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_numbers) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow (((\neg (r1\_xxreal\_0\ k6\_numbers\ X0) \wedge (r1\_xxreal\_0\ np\_\_1\ X2)) \wedge (v1\_abian\ X2)) \vee (r1\_xxreal\_0\ (k1\_power\ X2\ X0)\ (k1\_power\ X2\ X1))))))) \tag{5}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow(r1\_xxreal\_0\ X0\ X0) \tag{7}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{8}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{9}$$

Assume the following.

$$\exists X0.(v1\_xboole\_0\ X0)\wedge(v1\_xxreal\_0\ X0) \tag{10}$$

Assume the following.

$$\exists X0.(m1\_subset\_1\ X0\ k1\_numbers)\wedge((v1\_xxreal\_0\ X0)\wedge((v1\_xcmplx\_0\ X0)\wedge((v1\_xreal\_0\ X0)\wedge(v1\_int\_1\ X0)))) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0)\wedge(v1\_xreal\_0\ X1))\Rightarrow(v1\_xreal\_0\ (k1\_power\ X0\ X1)) \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow((r1\_xxreal\_0\ X0\ X1)\vee(r1\_xxreal\_0\ X1\ X0)) \tag{13}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{14}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{15}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(\forall X1.(v1\_xreal\_0\ X1)\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ k5\_numbers)\Rightarrow(\neg(\neg r1\_xxreal\_0\ X1\ X0)\wedge((\neg(\neg(r1\_xxreal\_0\ k6\_numbers\ X0)\wedge(r1\_xxreal\_0\ np\_\_1\ X2))\wedge(v1\_abian\ X2))\wedge(r1\_xxreal\_0\ (k1\_power\ X2\ X1)\ (k1\_power\ X2\ X0))))))$$