t19_prepower (TMLkvDnqMqkVJ3tgC1H9rfHcBNsSZ32AxeF)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ 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 $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $k2\_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_0 : \iota$ 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. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X1\ X0)) \Rightarrow (X0 = X1))) \tag{2}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((r1\_xxreal\_0\ np\_\_1\ X0) \Rightarrow (k2\_newton\ k6\_numbers\ X0 = k6\_numbers)) \tag{3}$$

Assume the following.

$$(m2\_subset\_1\ np\_\_0\ k1\_numbers\ k5\_numbers) \wedge ((m1\_subset\_1\ np\_\_0\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_0\ k1\_numbers)) \tag{4}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{5}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers) \wedge (v7\_ordinal1\ X1)) \Rightarrow (k2\_newton\ X0\ X1 = k1\_newton\ X0\ X1) \tag{7}$$

Assume the following.

$$\exists X0.(v1\_xboole\_0\ X0)\wedge((v1\_xcmplx\_0\ X0)\wedge((v1\_xxreal\_0\ X0)\wedge(v1\_xreal\_0\ X0))) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(\forall X1.(v7\_ordinal1\ X1)\Rightarrow((r1\_xxreal\_0\ np\_\_1\ X1)\Rightarrow((r1\_xxreal\_0\ X0\ k6\_numbers)\vee((k1\_newton\ (k2\_prepower\ X1\ X0)\ X1 = X0)\wedge(k2\_prepower\ X1\ (k1\_newton\ X0\ X1) = X0))))) \tag{9}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.(v1\_xreal\_0\ X1)\Rightarrow((r1\_xxreal\_0\ np\_\_1\ X0)\Rightarrow(\forall X2.(v1\_xreal\_0\ X2)\Rightarrow(((\neg r1\_xxreal\_0\ X1\ k6\_numbers)\Rightarrow((X2 = k2\_prepower\ X0\ X1)\Leftrightarrow((k1\_newton\ X2\ X0 = X1)\wedge(\neg r1\_xxreal\_0\ X2\ k6\_numbers))))\wedge((X1 = k6\_numbers)\Rightarrow((X2 = k2\_prepower\ X0\ X1)\Leftrightarrow(X2 = k6\_numbers))))))) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{11}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{12}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(\forall X1.(v7\_ordinal1\ X1)\Rightarrow(((r1\_xxreal\_0\ k6\_numbers\ X0)\wedge(r1\_xxreal\_0\ np\_\_1\ X1))\Rightarrow((k1\_newton\ (k2\_prepower\ X1\ X0)\ X1 = X0)\wedge(k2\_prepower\ X1\ (k1\_newton\ X0\ X1) = X0))))$$