l39_pepin (TM-FkZa2Je53Cue9FxscX8vCK1hFRMEsHWip)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xreal\_0\ X2) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X1\ X0) \wedge ((\neg r1\_xxreal\_0\ X2\ np\_\_1) \wedge\ (r1\_xxreal\_0\ (k3\_power\ X2\ X1)\ (k3\_power\ X2\ X0))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0) \wedge (v7\_ordinal1\ X1)) \Rightarrow (k3\_power\ X0\ X1 = k1\_newton\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (v1\_xreal\_0\ X0) \tag{3}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (\forall X2.\ (v7\_ordinal1\ X2) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X0\ X1) \wedge ((\neg r1\_xxreal\_0\ X2\ np\_\_1) \wedge\ (r1\_xxreal\_0\ (k1\_newton\ X2\ X0)\ (k1\_newton\ X2\ X1))))))$$