1023-54-521   **R Patrick Vernon*** (`rvernon@tulane.edu`), Mathematics Department, Tulane University, 6823 St. Charles Ave., New Orleans, LA. *Preimages Under $f(z) = z^n$ of Continua in the Complex Plane.* Preliminary report.

In this paper, the author addresses two questions posed by David Bellamy. The first question asks whether the preimage (under $f(z) = z^n$) of a hereditarily indecomposable continuum in the plane which is irreducible with respect to separating the origin from ∞ is necessarily hereditarily indecomposable. The second question asks whether a hereditarily indecomposable continuum which properly contains a pseudocircle can have a hereditarily indecomposable preimage. The author discusses answers to these questions, and provides some extensions to these results. (Received September 20, 2006)