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Joanna Furno* (jfurno@wesleyan.edu) and **Lorelei Koss** (koss@dickinson.edu). *Two fourth-degree families: A comparison of Julia sets*. Preliminary report.

We compare two families of fourth-degree rational functions. These two families have similar critical orbit diagrams, differing only in the placement of one critical point of multiplicity two. We compare and contrast the possibilities for the structure of the Julia sets, giving examples that are the whole sphere, Cantor sets, or similar to the Sierpinski gasket. (Received February 03, 2015)