

smooth!conjugacy
conjugacy!smooth

Chapter 7. Get straight

Solution 7.2: Linearization for maps. (*difficulty: medium*) *The first few terms of the map h that conjugates f to αz*

$$f(z) = h^{-1}(\alpha h(z)).$$

are determined many places, for example in ref. [14.5].

There are conditions on the derivative of f at the origin to assure that the conjugation is always possible. These conditions are formulated in ref. [1.21], among others.