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We consider methods for extending the Julia set drawing algorithms for the iteration case to the more general setting of rational semigroups. These methods include (i) the (complement of) an attracting basin algorithm, (ii) the full backward orbit algorithm, and (iii) the random backward iteration algorithm. Method (iii) has recently been proven to be valid for rational semigroups (of a certain type), so its proof will also be discussed. (Received September 14, 2014)