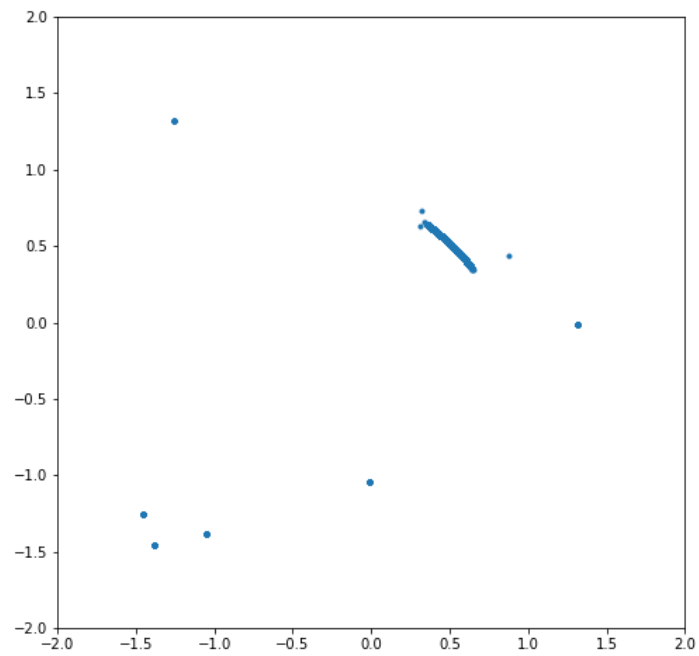
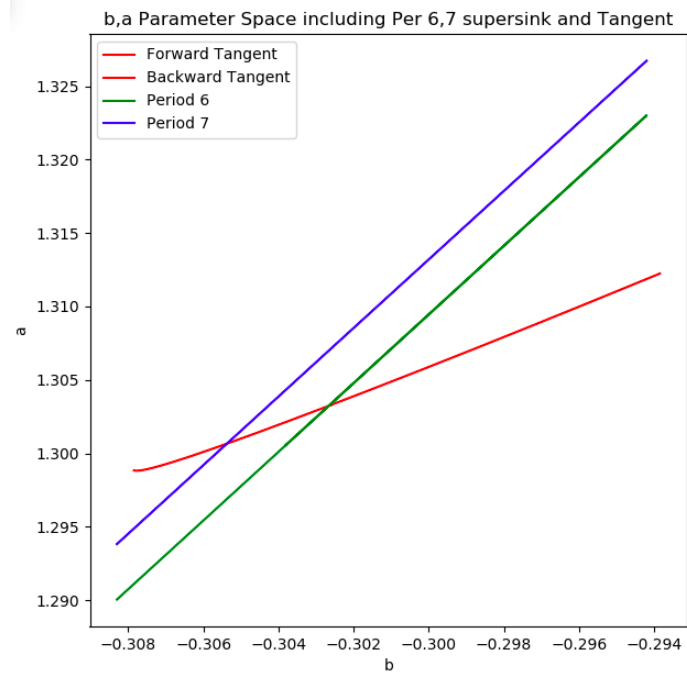
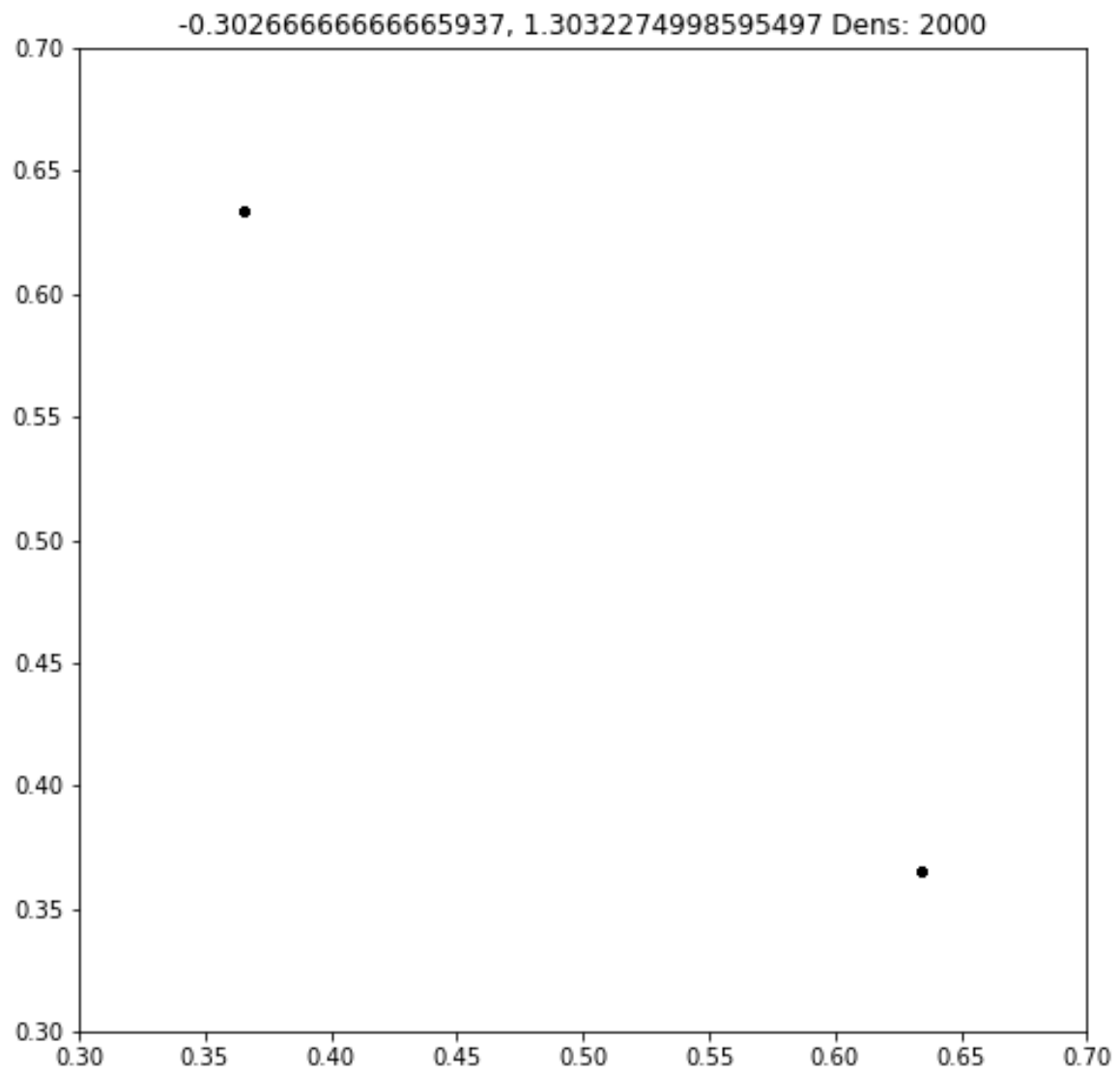


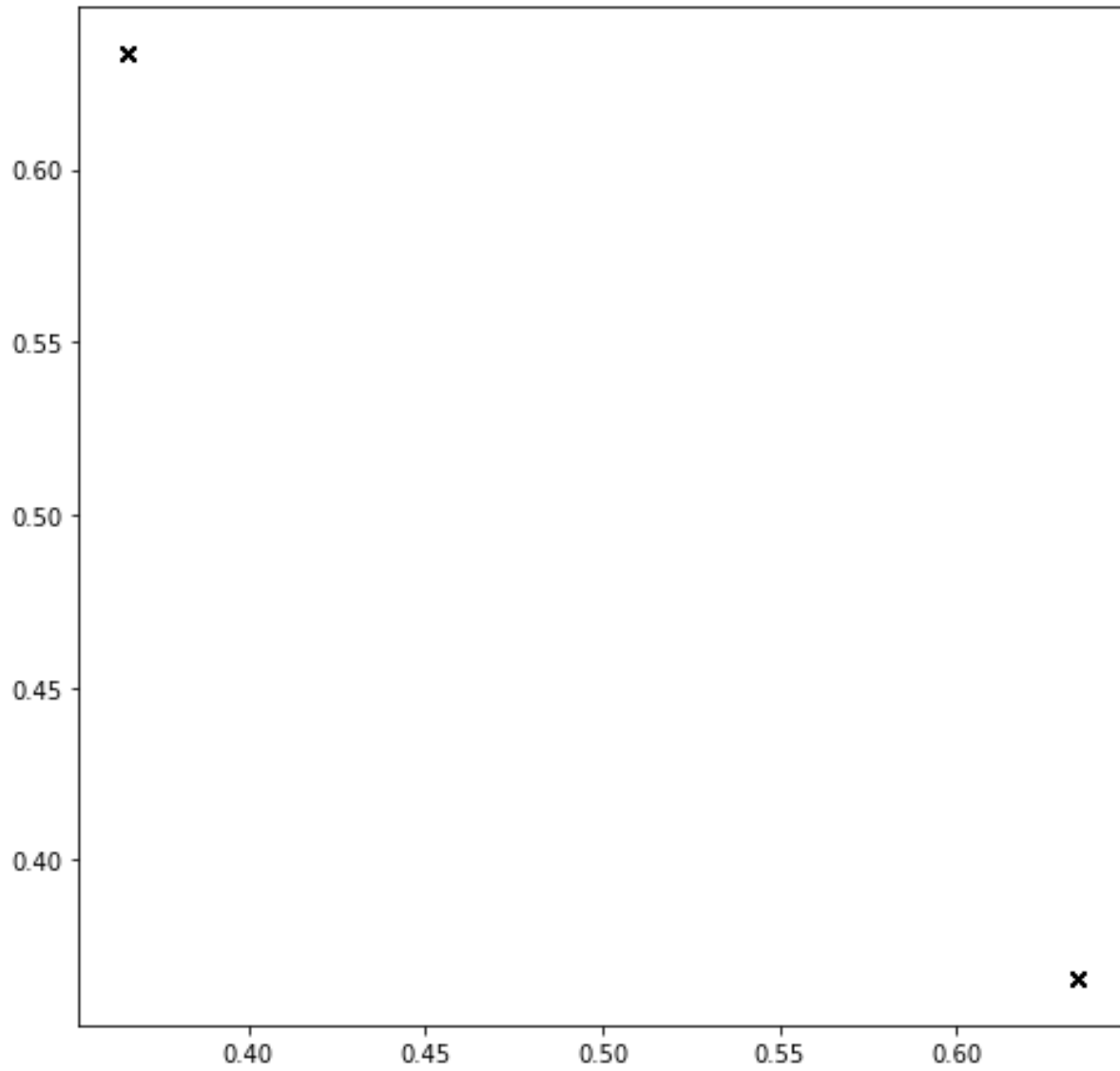
Recall Previously:



Meshgrid Method with 5,000 iterations:



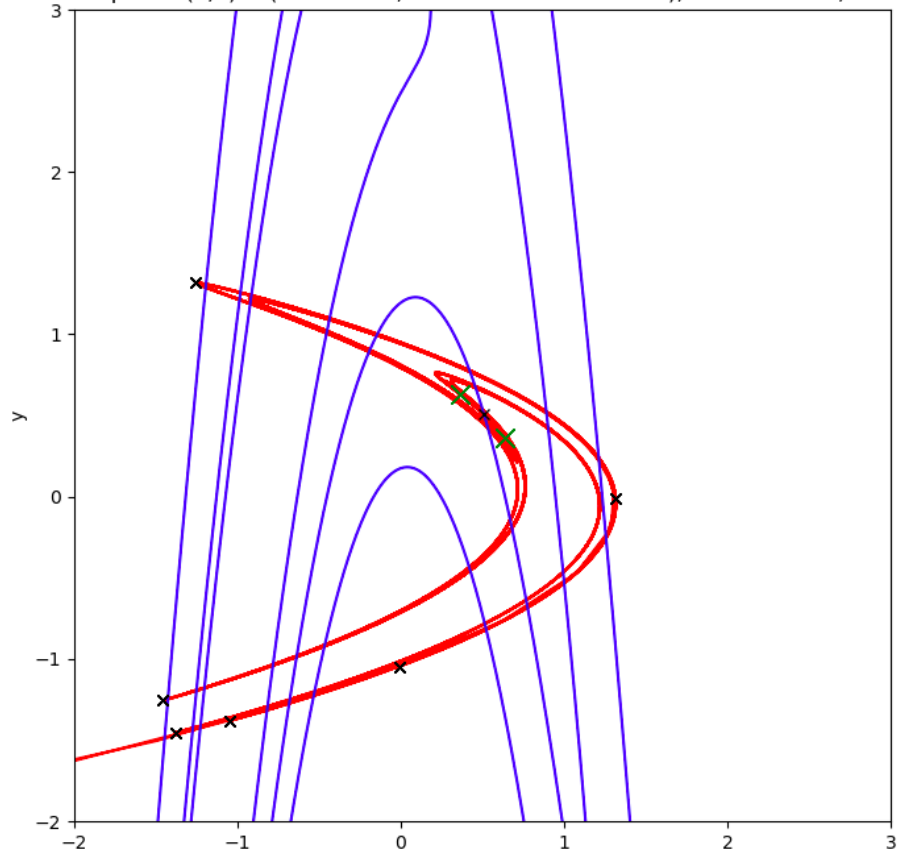
Confirmation it is a period-2 point



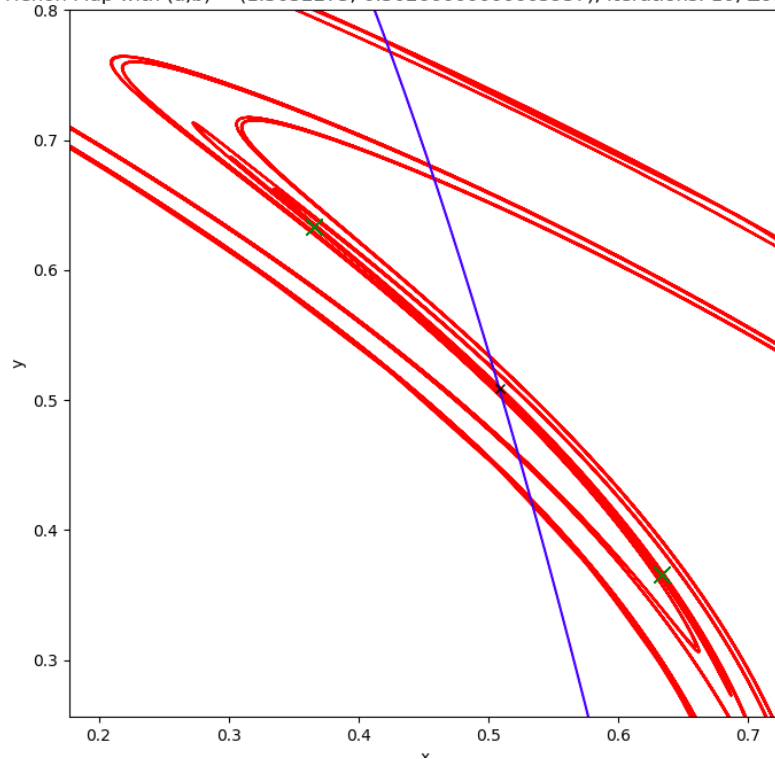
^ trace found to be about 0.9

In coordinate space:

Hénon Map with  $(a,b) = (1.3032275, -0.302666666666665937)$ , Iterations: 10, Zoom: 2

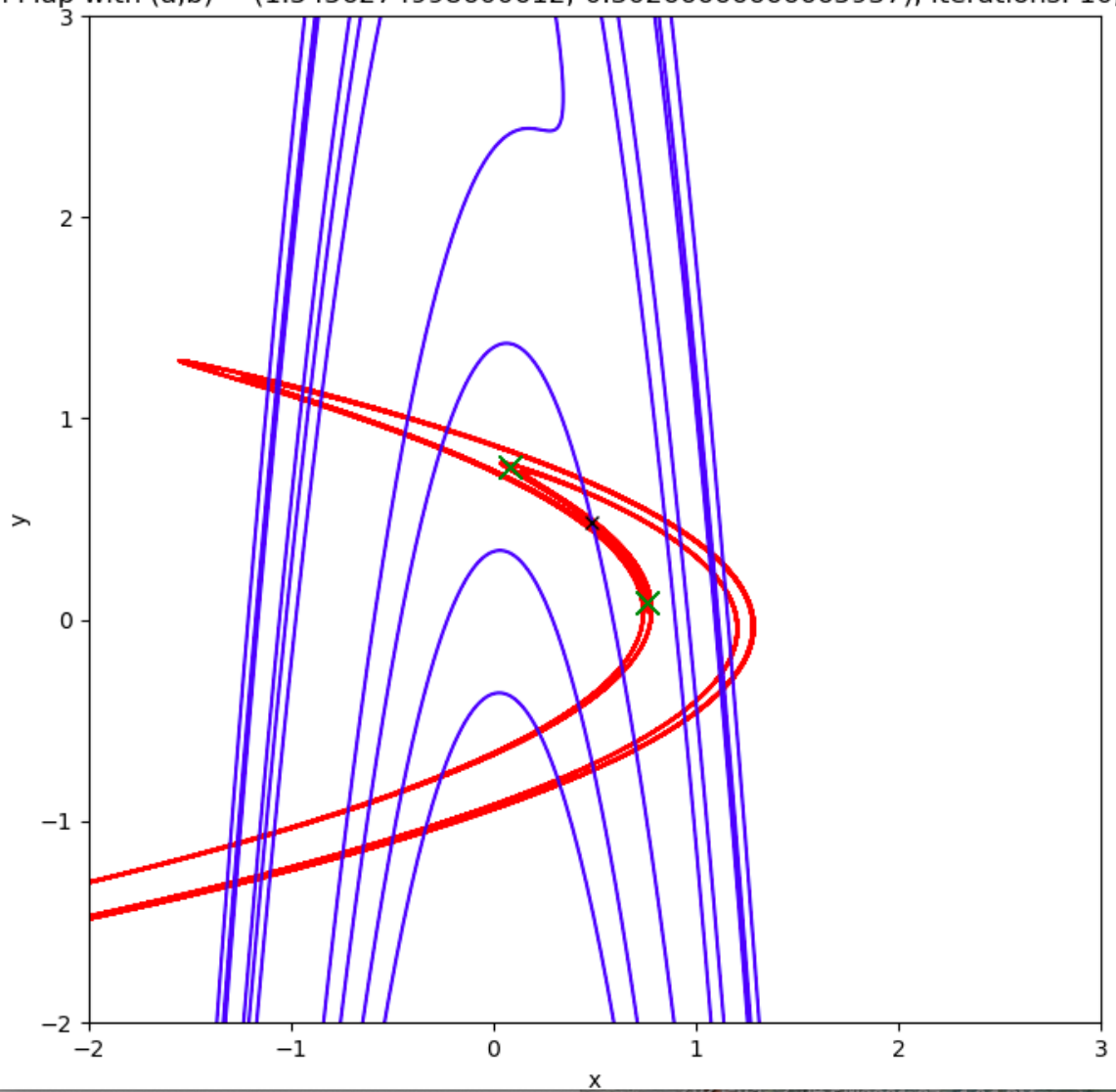


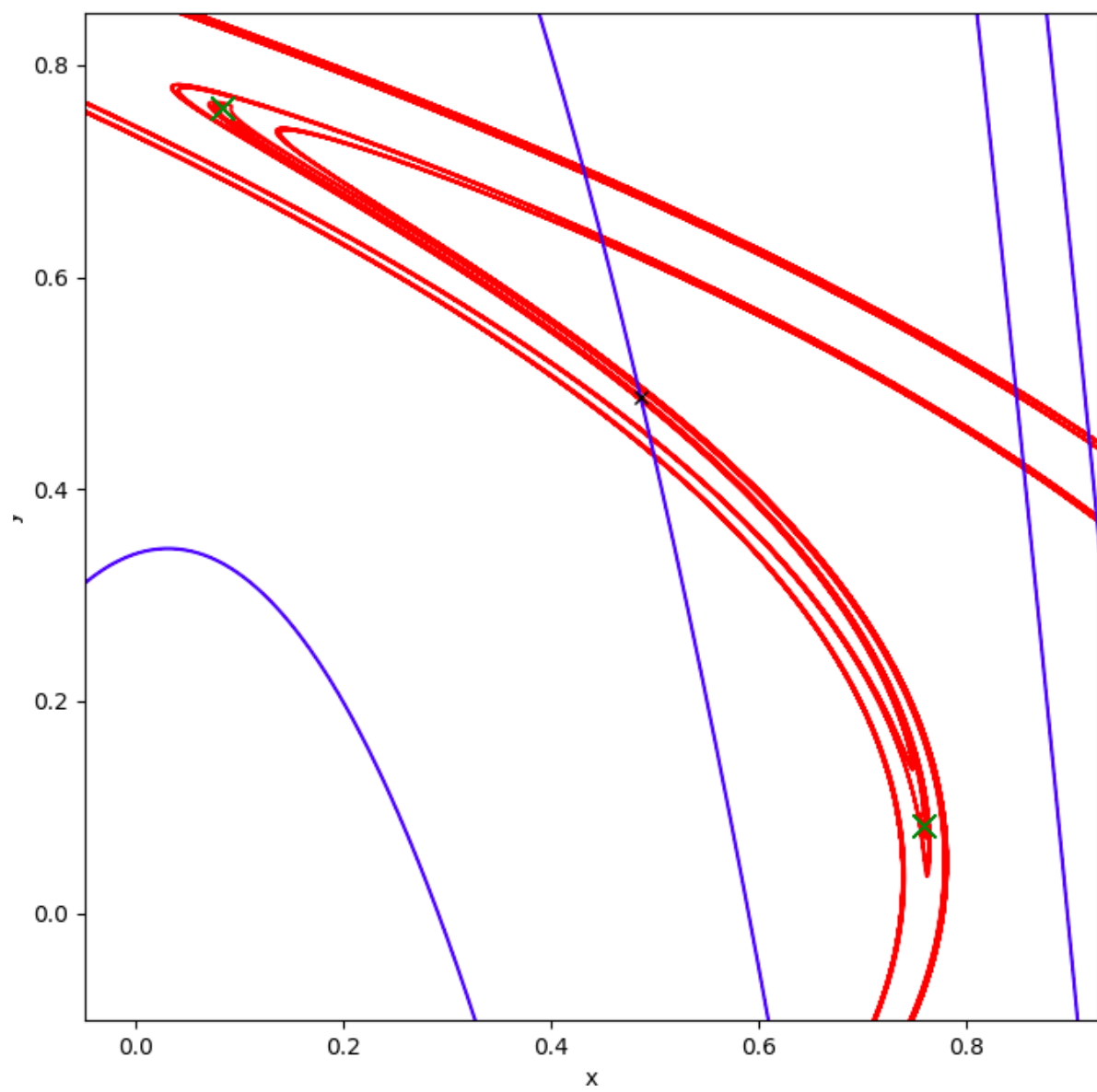
Hénon Map with  $(a,b) = (1.3032275, -0.302666666666665937)$ , Iterations: 10, Zoom:



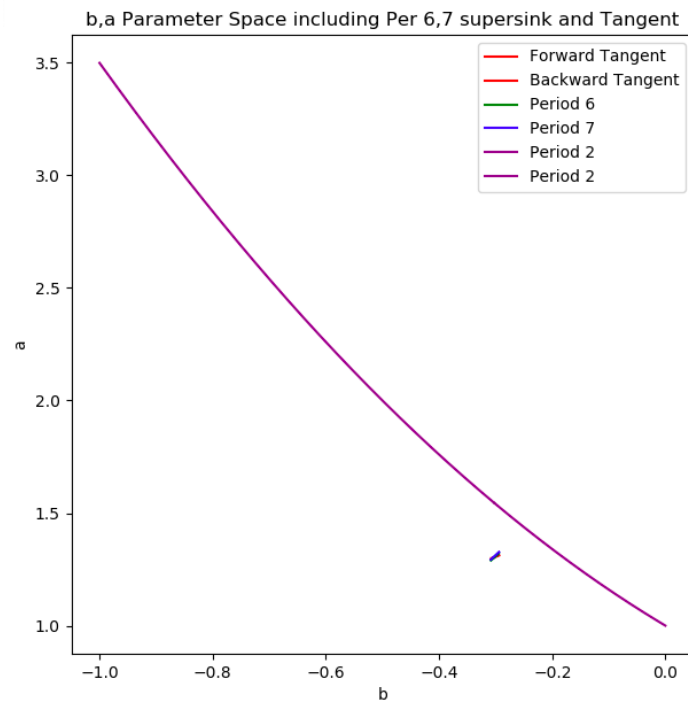
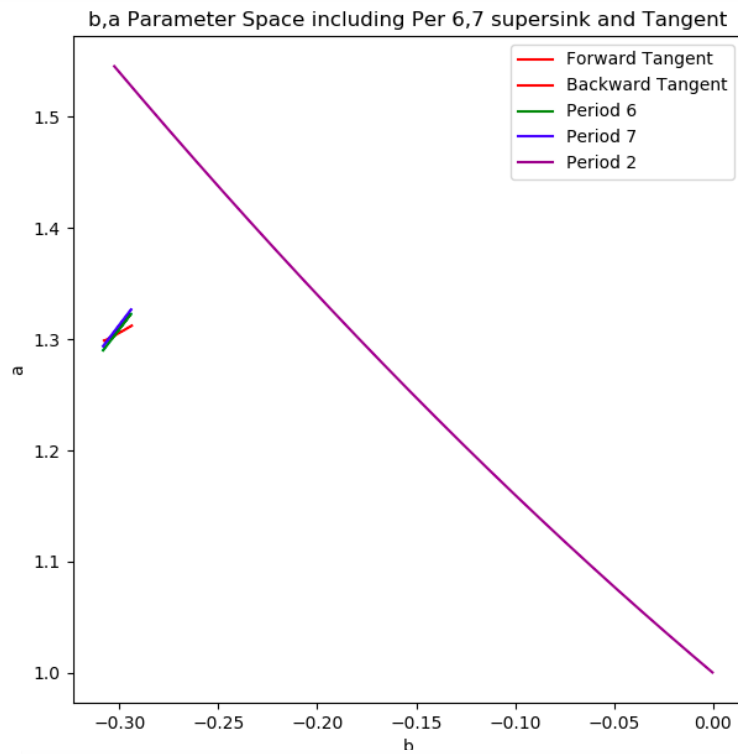
Found a corresponding to supersink with same b value:

Hénon Map with  $(a,b) = (1.5456274998600612, -0.30266666666665937)$ , Iterations: 10,

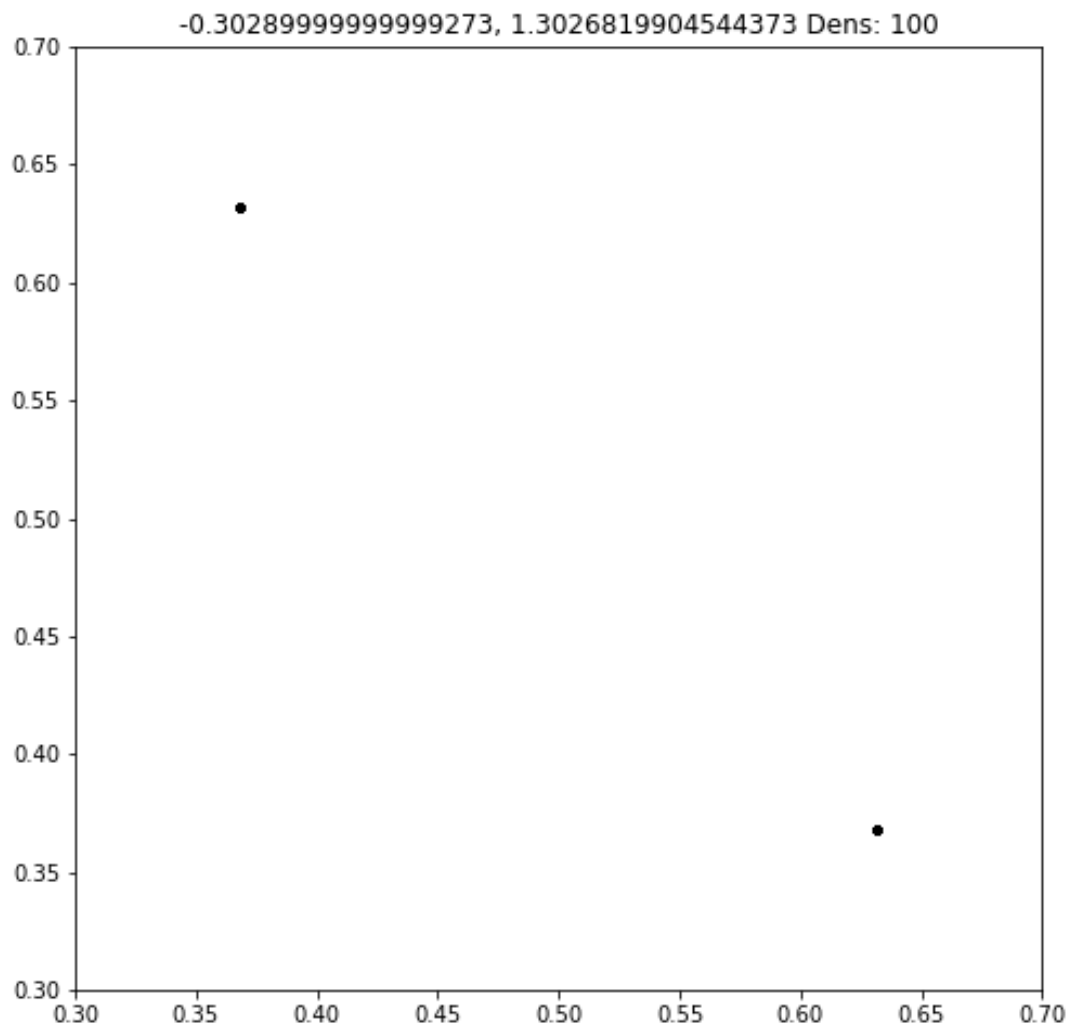




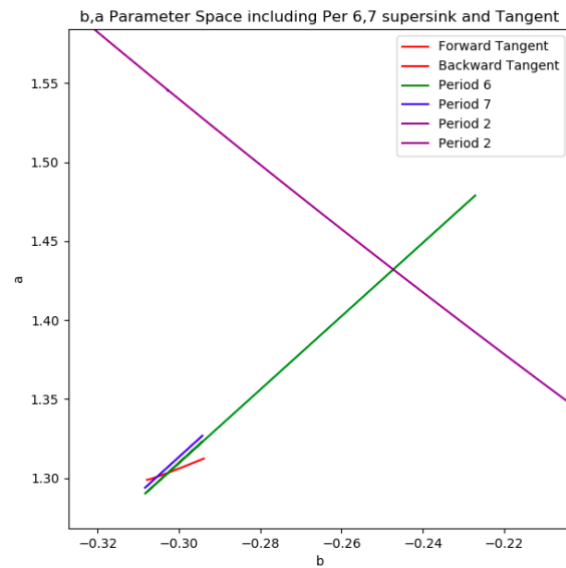
## Problem: distance in parameter space



But for the periodic point to still be found around our initial area of interest, there is still a period 2 basin.

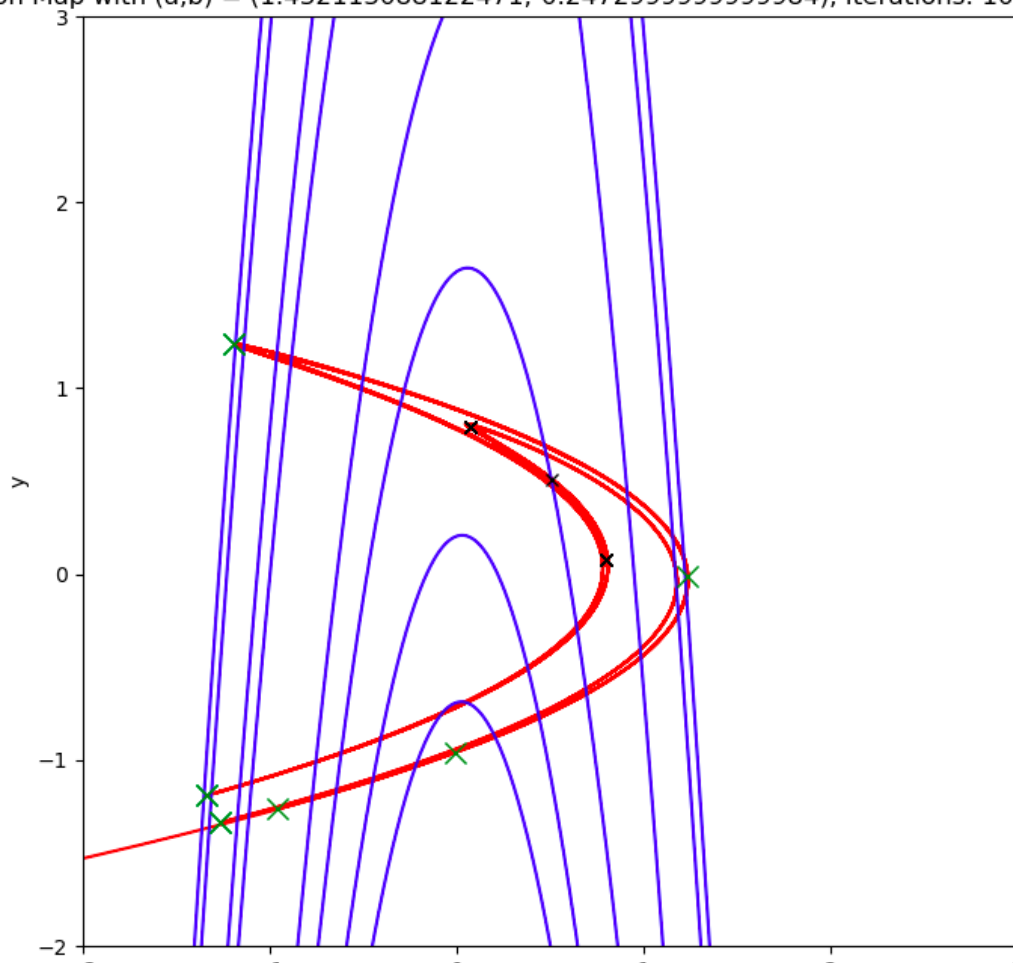






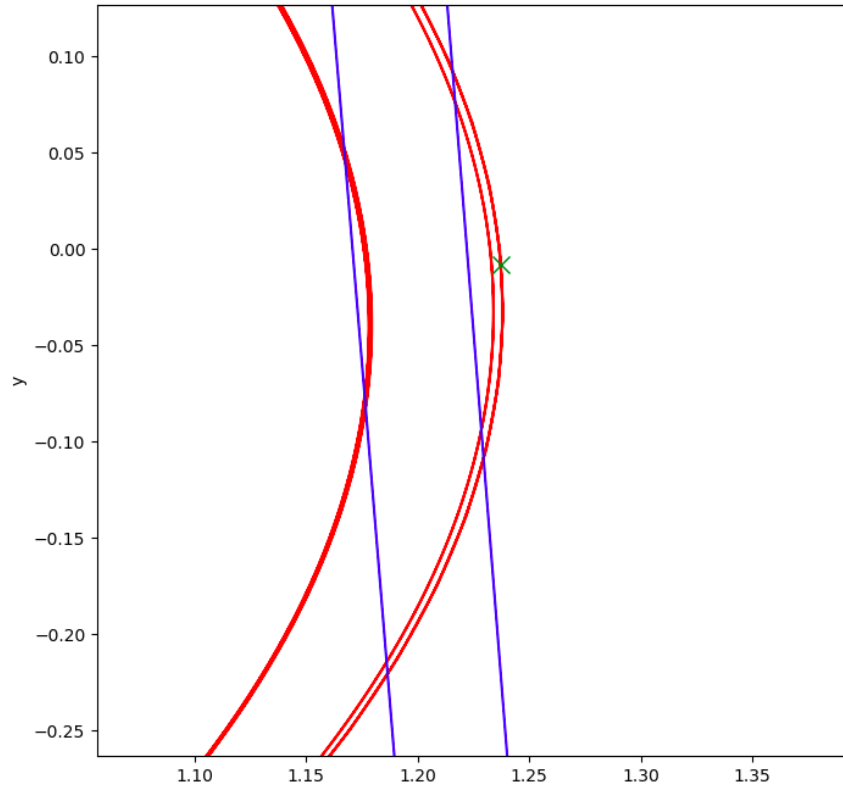
At this intersection of supersink curves:

Hénon Map with  $(a,b) = (1.432113088122471, -0.2472999999999984)$ , Iterations: 10, Zoom: 2.



### Tangencies to investigate:

Hénon Map with  $(a,b) = (1.432113088122471, -0.2472999999999984)$ , Iterations: 10, Zoom: 2.



Hénon Map with  $(a,b) = (1.432113088122471, -0.2472999999999984)$ , Iterations: 10, Zo

