Basins of attraction Documentation

You can change the degree of the of the input polynomial from the top left edit field You can change the color of any root by clicking the root value from the list Basins of attraction Degree of polynomial Generate root colors Animation pause time in seconds 0.02 coefficients Select Root Colors Max Iterations x^6 x^5 0 0.7446 - 1.2897i Plot x^3 3 ✓ grid on/off x^2 -0.3357 - 0.5815i 0 x^1 0 0.6715 + 0.0000i x^0 You can change the polynomial coefficients here x_max -5 5 x_min 5 -5 y_min y_max 1000 1000 Tolerance 0.1 1000 **Tolerance** is used for checking -4 -3 -2 -1 0 2 3 5 the convergence of the root

Edit fields **m** and **n** are the number of grid points in x- and y-directions

M is a bound for deciding if the iteration converges