Chapter 7: Graphical Explorations of the Logistic Equation

Worksheet to accompany

David Feldman, Chaos and Fractals: An Elementary Introduction, Oxford University Press, 2012

On the four figures are shown plots of the logistic equation for four different values of the parameter r. For each plot, use graphical iteration to determine the stability of each fixed point. Sketch a representative time series plot.



Figure 2: The logistic equation with r = 1.8.



Figure 3: The logistic equation with r = 2.5.



Figure 4: The logistic equation with r = 3.2.