# Chapter 7: Graphical Explorations of the Logistic Equation 

Worksheet to accompany<br>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 1: The logistic equation with $r=0.8$.


Figure 2: The logistic equation with $r=1.8$.


Figure 3: The logistic equation with $r=2.5$.


Figure 4: The logistic equation with $r=3.2$.

