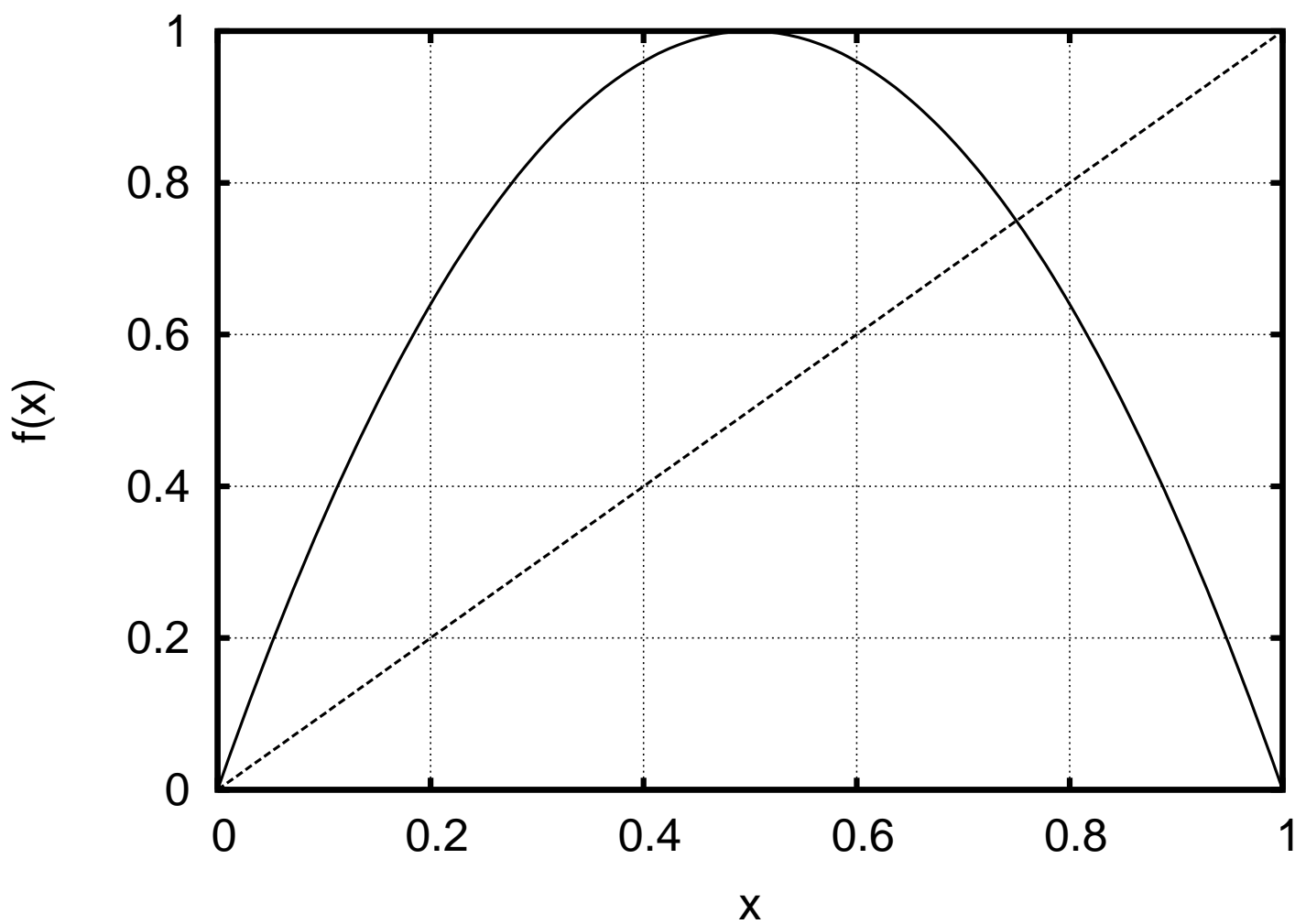


# Chapter 10: A Graphical Iteration Exercise

Worksheet to accompany

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

The figure below shows a function  $f(x)$ . Starting with the seed  $x_0 = 0.1$ , graphically iterate. What approximate value do you get for the fifth iterate,  $x_5$ ?



The figure below shows another function  $f(x)$ . Starting with the seed  $x_0 = 0.1$ , graphically iterate. What approximate value do you get for the fifth iterate,  $x_5$ ?

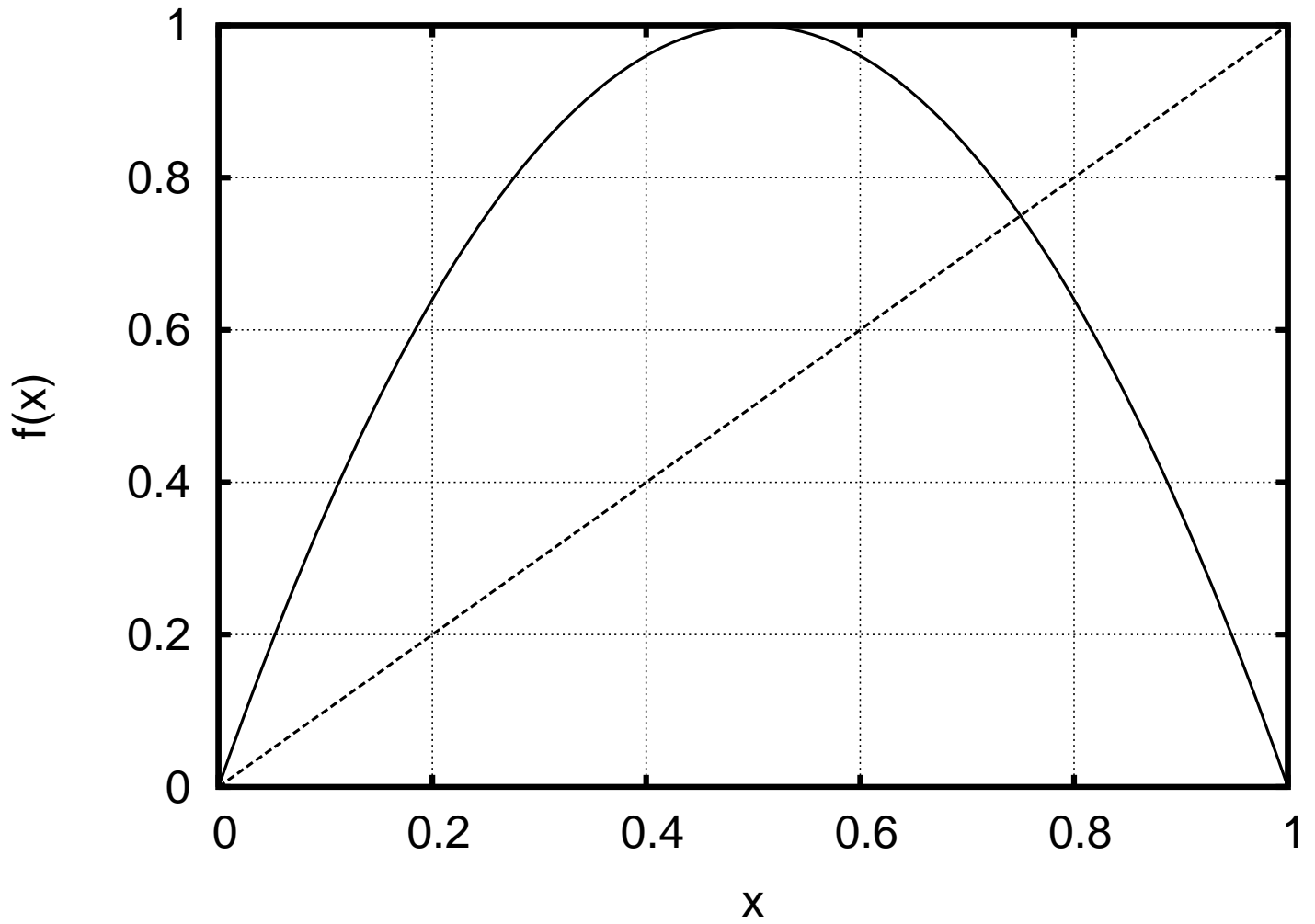


Figure 1: The logistic equation with  $r = 4.0$ .