

Figure 1: Setting up the cobweb diagram for $x_{n+1} = 2x_n$.

Example 3.8.

unstable

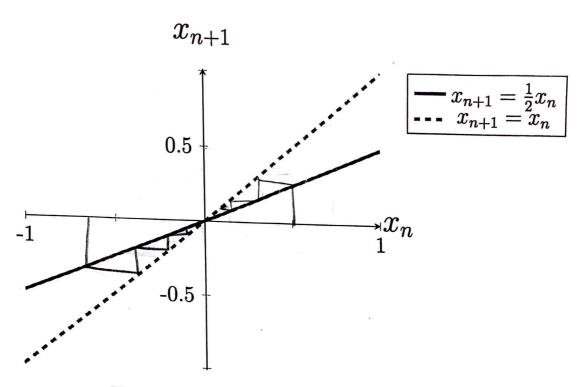


Figure 2: Setting up the cobweb diagram for $x_{n+1} = \frac{1}{2}x_n$.

Example 3.9. asymptote Stable

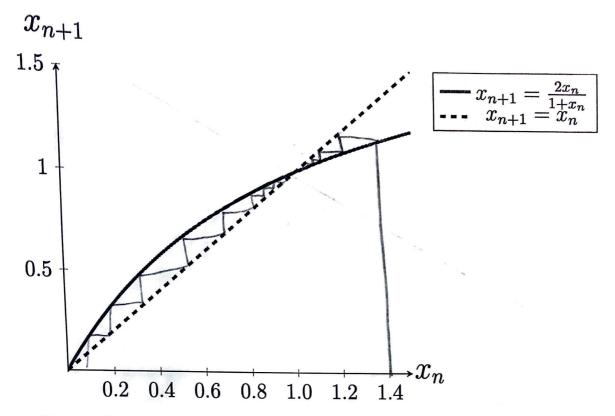


Figure 3: Setting up the cobweb diagram for the Beverton-Holt equation $x_{n+1} = \frac{2x_n}{1+x_n}$.

Example 3.10. Attraction

Lyapunou stable 00Asymptote Stable

