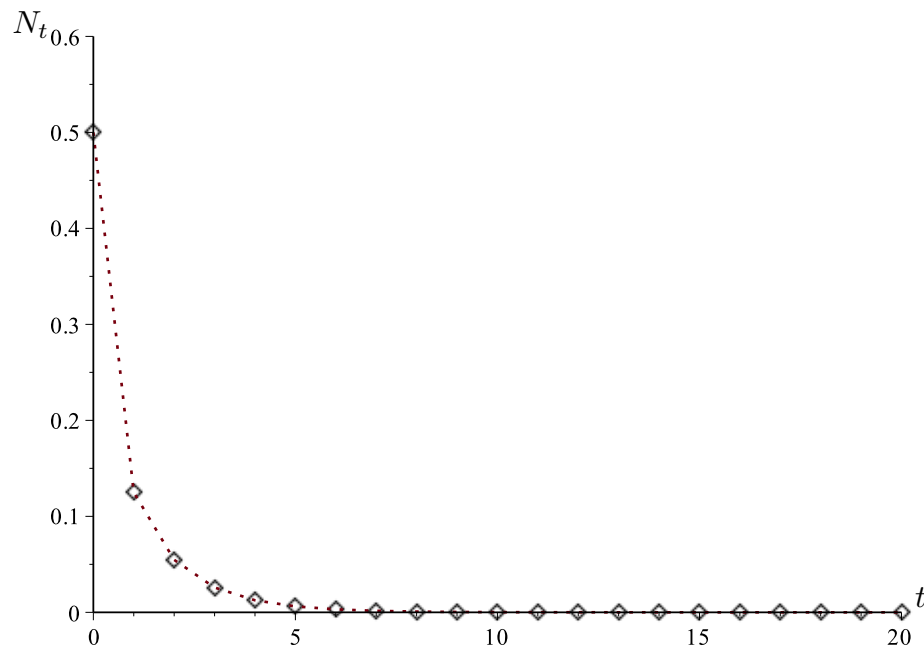


# Logistic Map

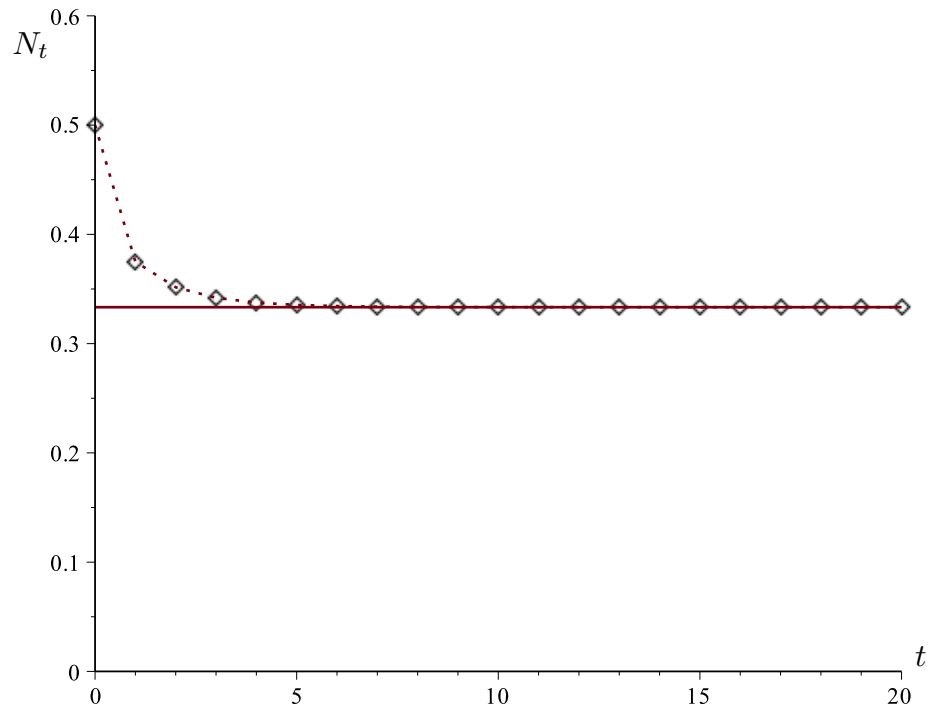
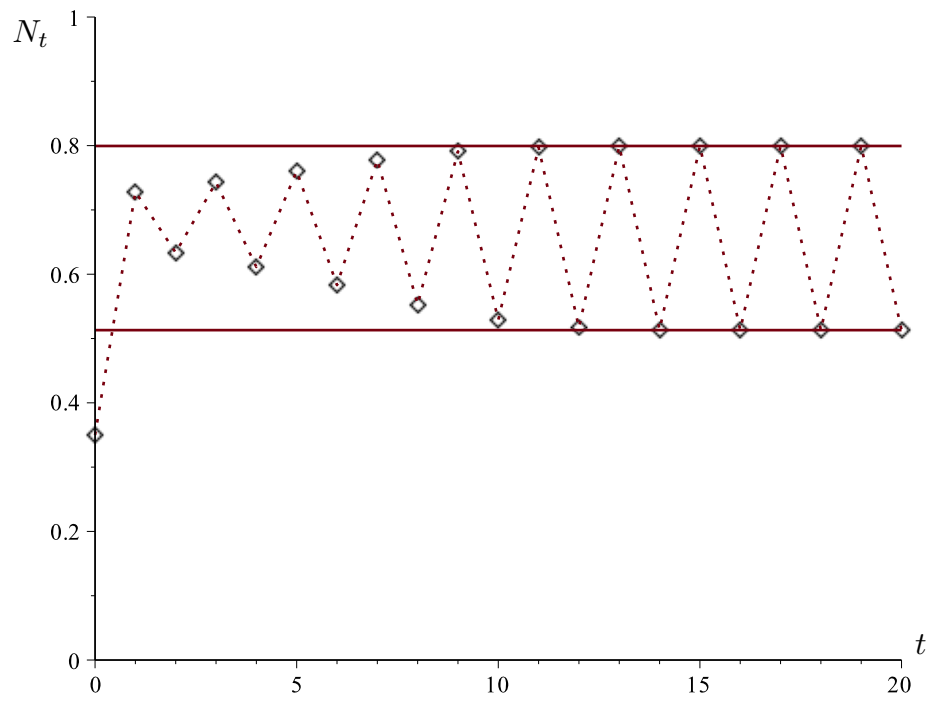
For the logistic map

$$N_{t+1} = sN_t(1 - N_t), \quad (1)$$

there are many behaviors depending on the value of  $s$ .



Iterations of (1) with  $s = 0.5$  (only  $N_t = 0$  stable).

Iterations of (1) with  $s = 1.5$  (only  $N_t = N^*$  stable).Iterations of (1) with  $s = 3.2$  (stable 2-cycle).