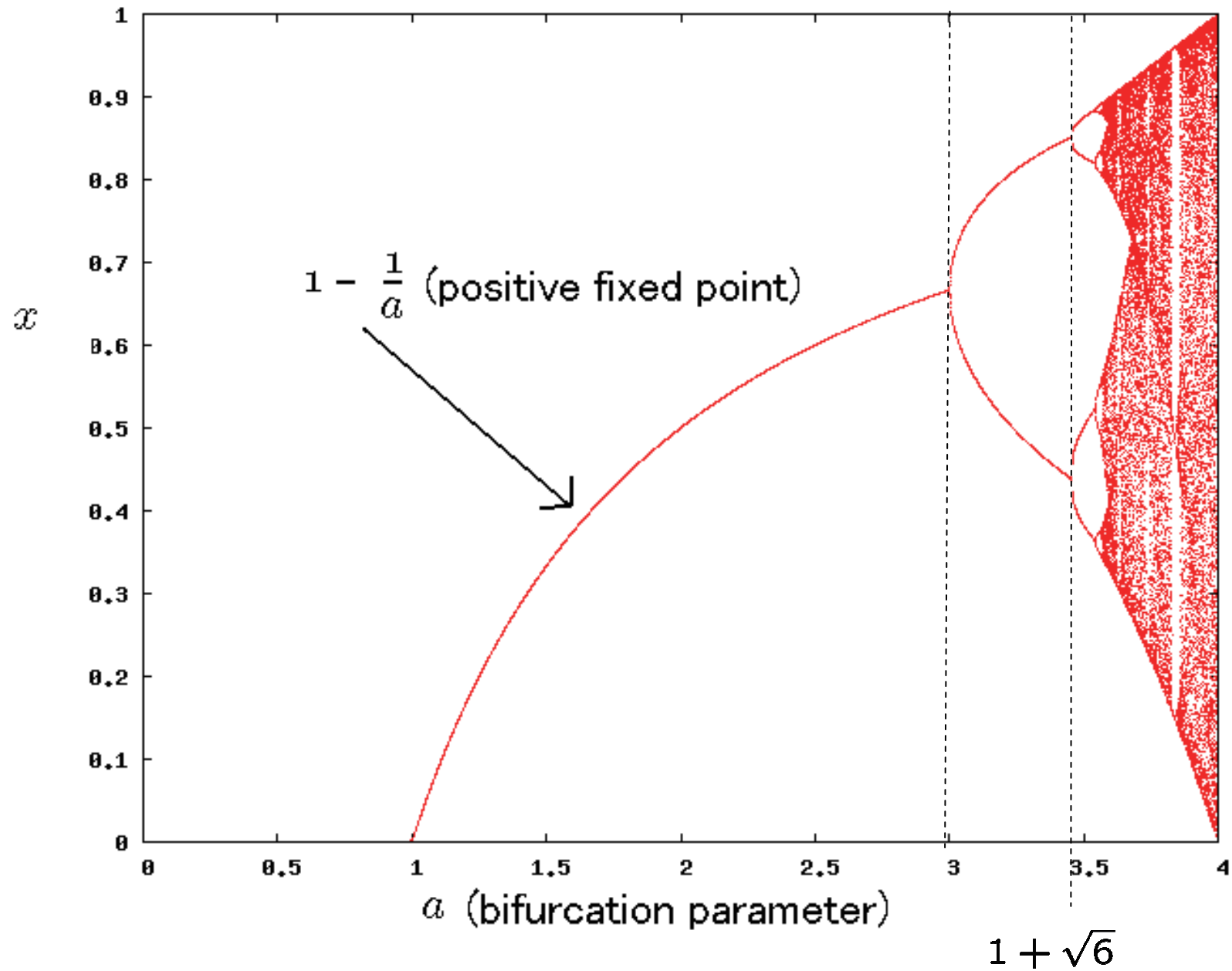
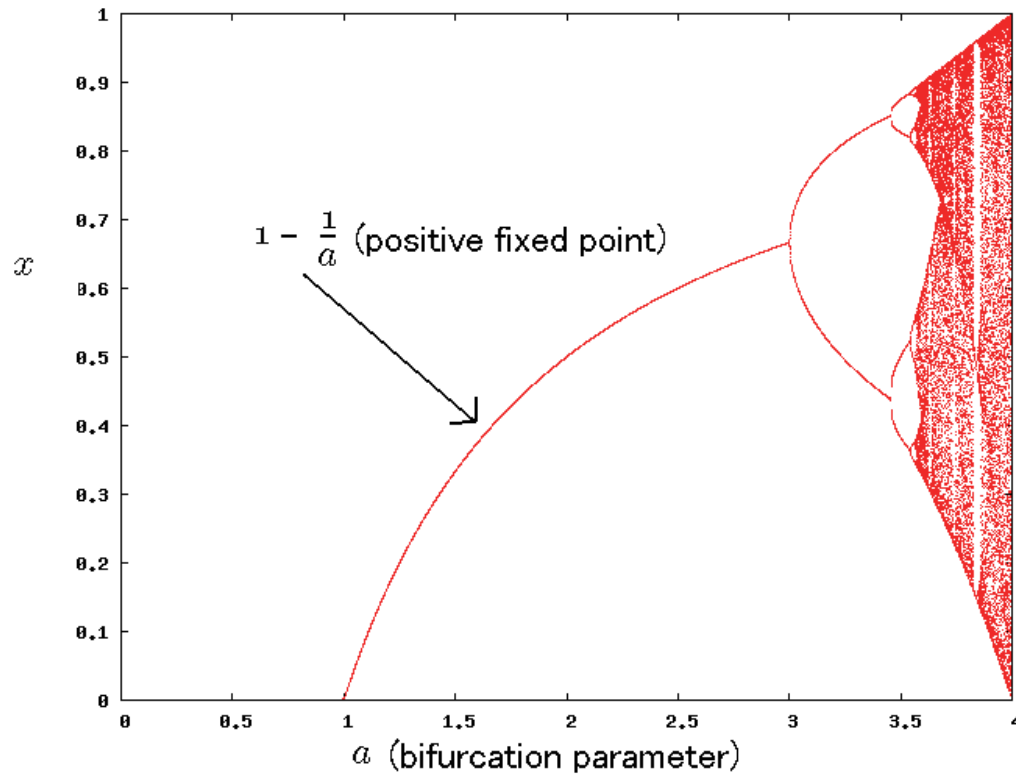
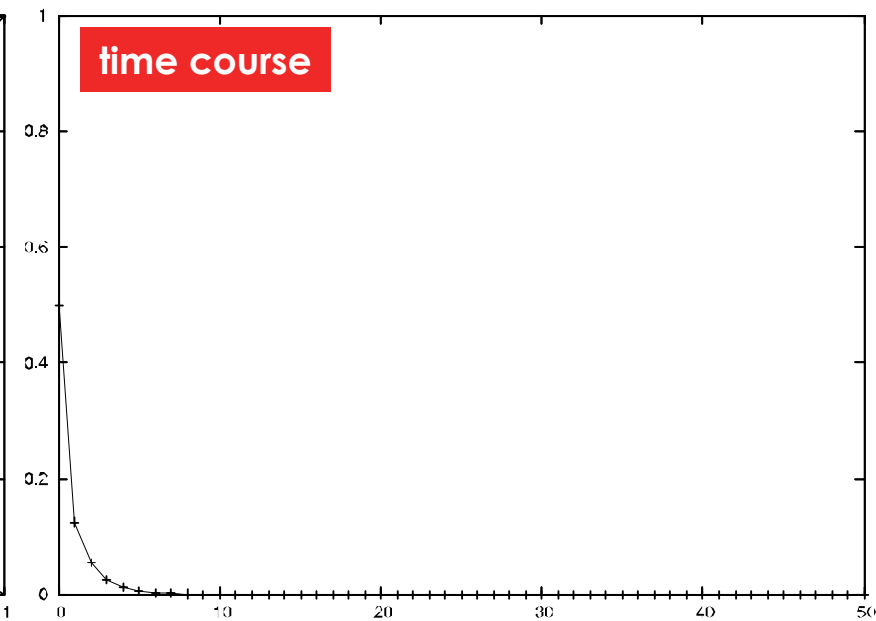
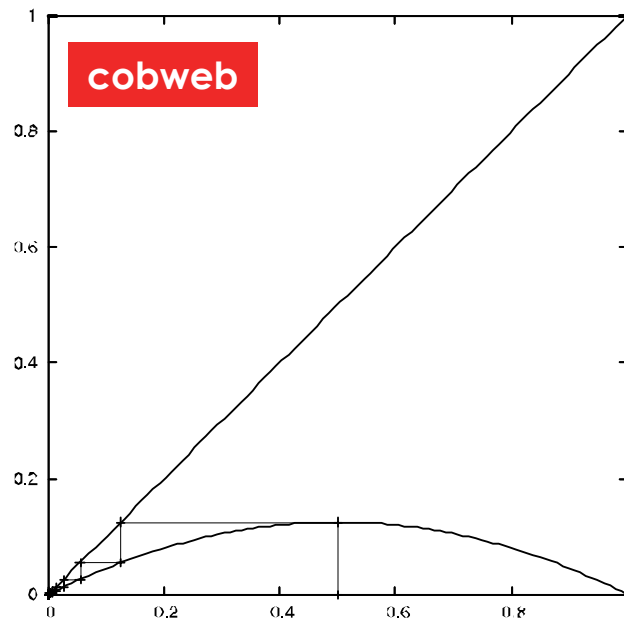


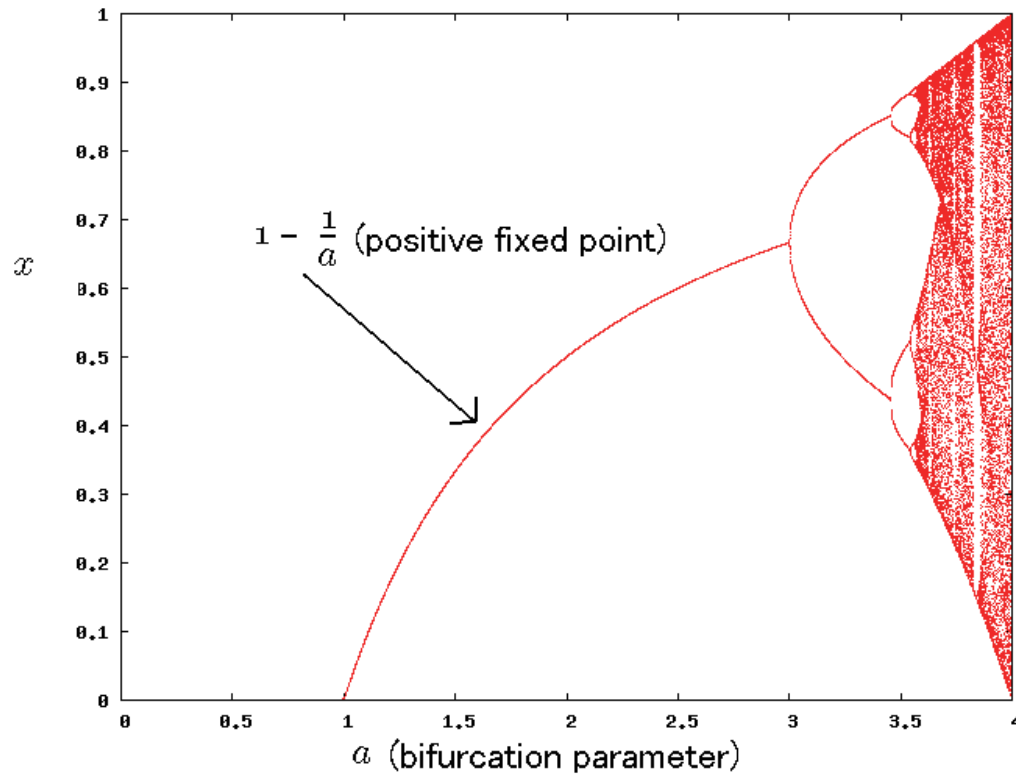
# Bifurcation diagram of the logistic map



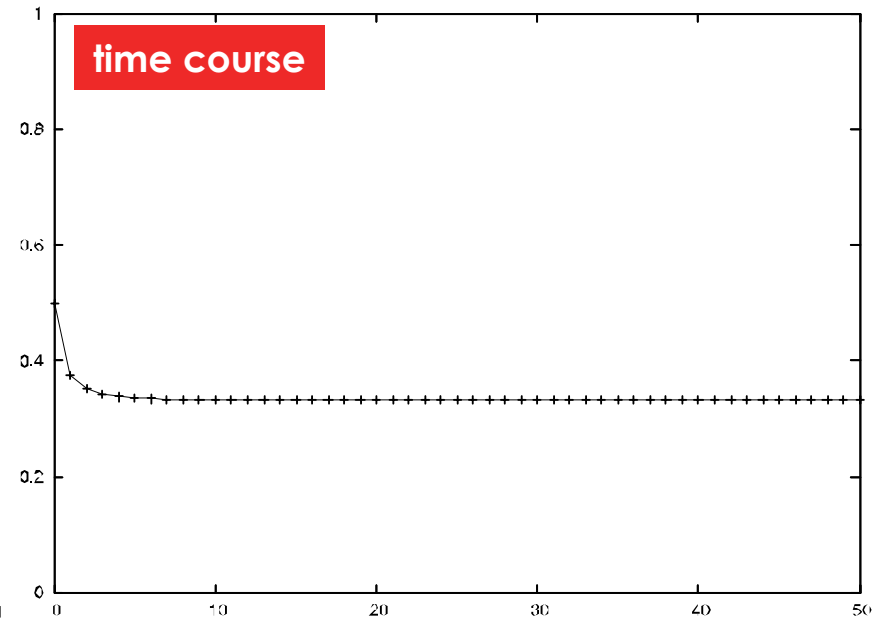
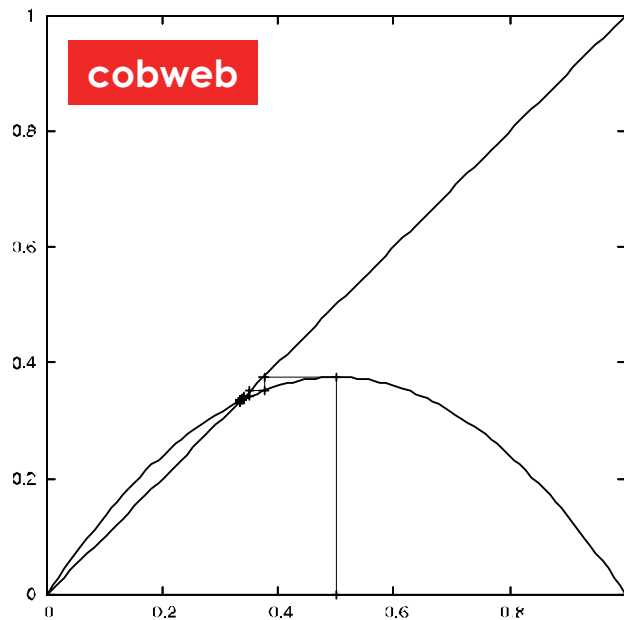


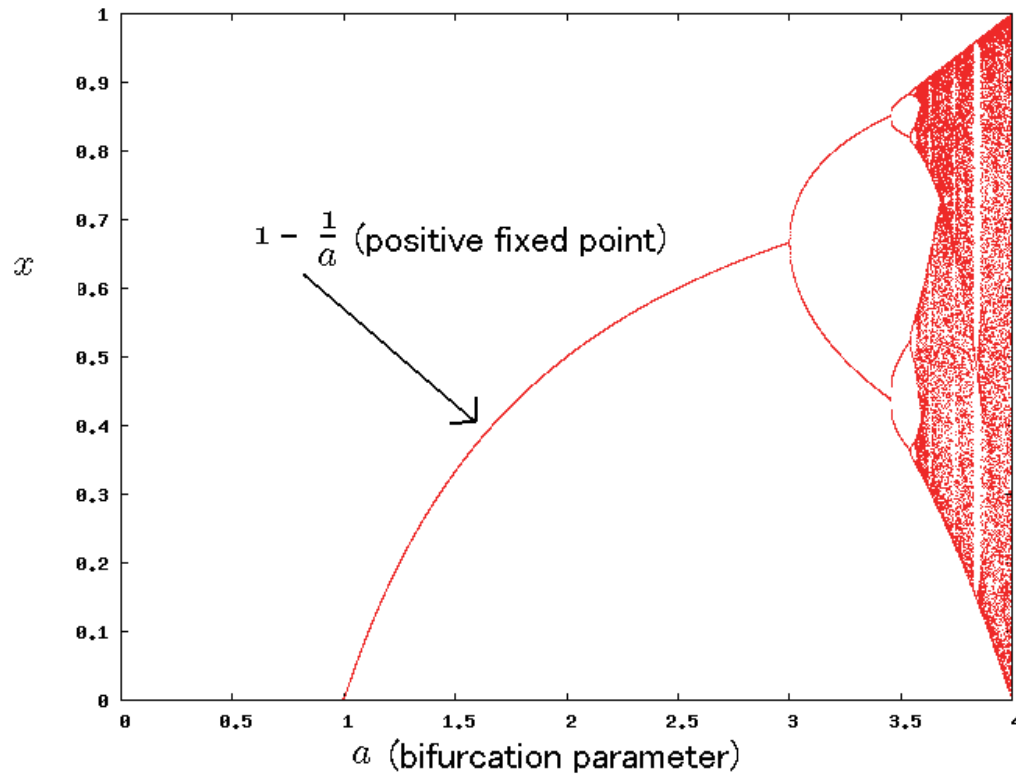
$a=0.5$



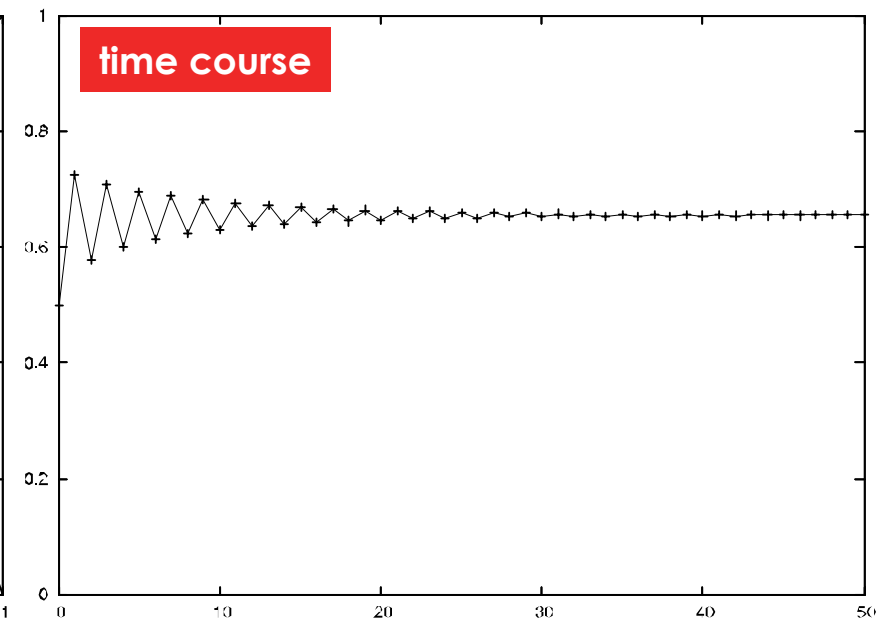
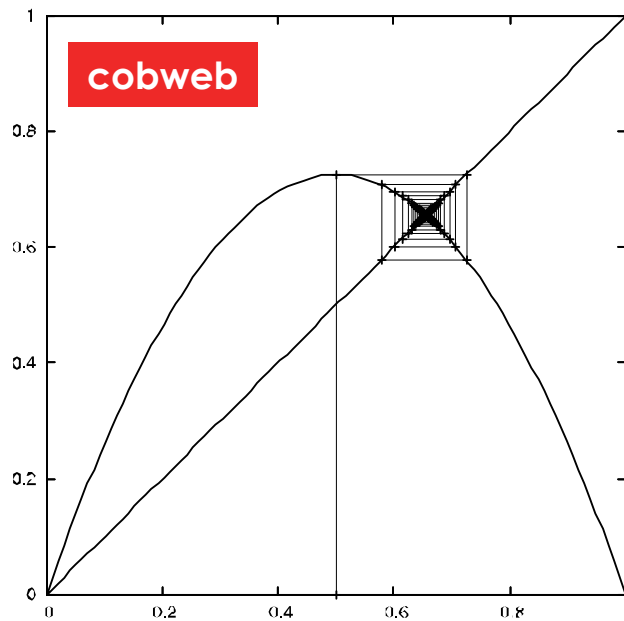


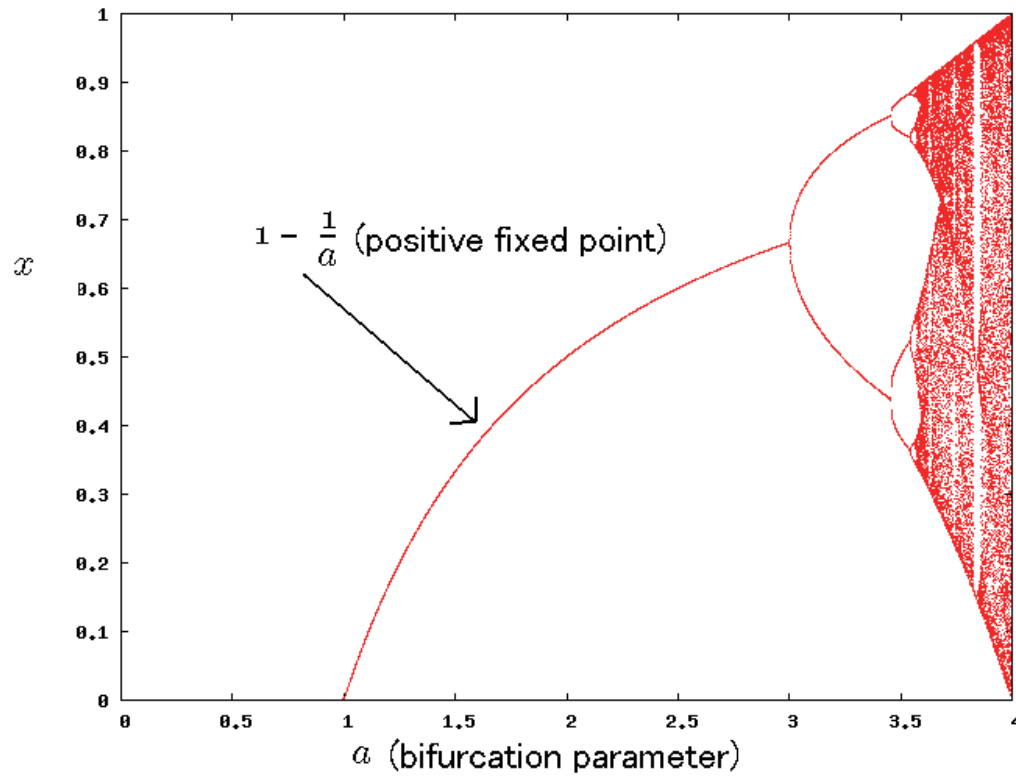
$a=1.5$



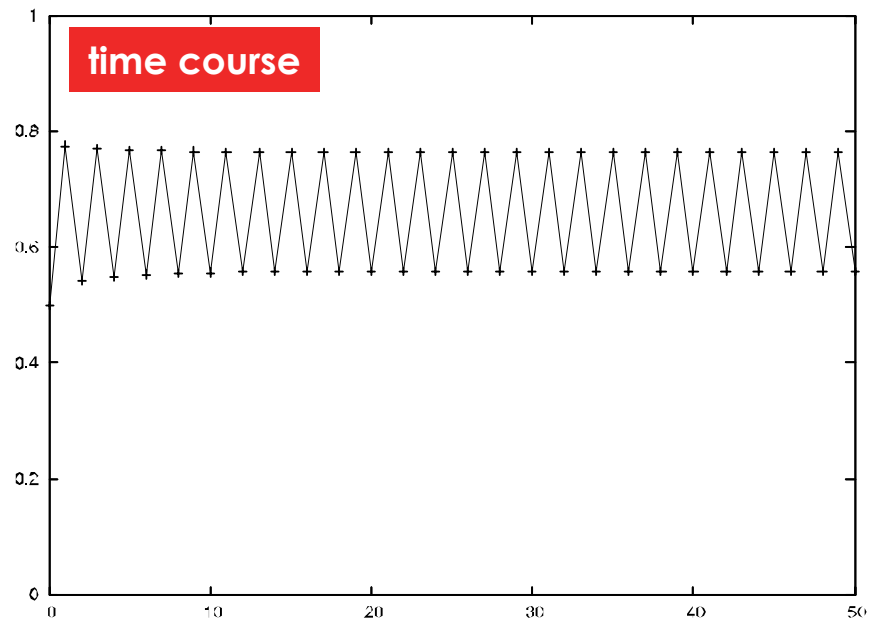
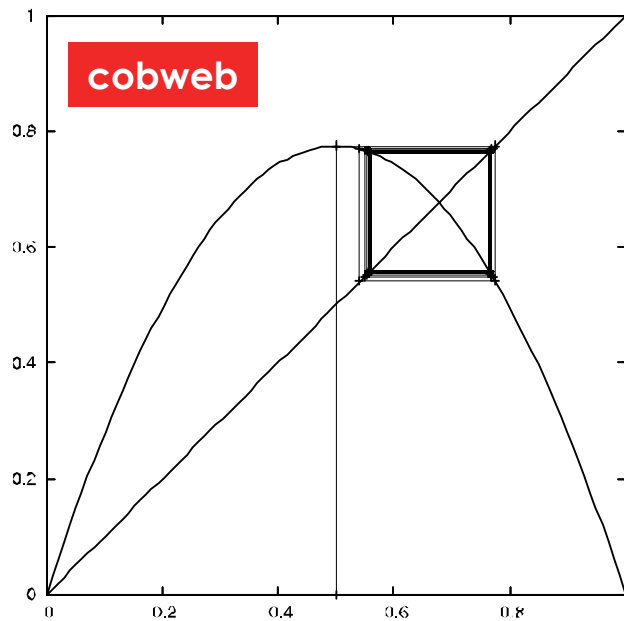


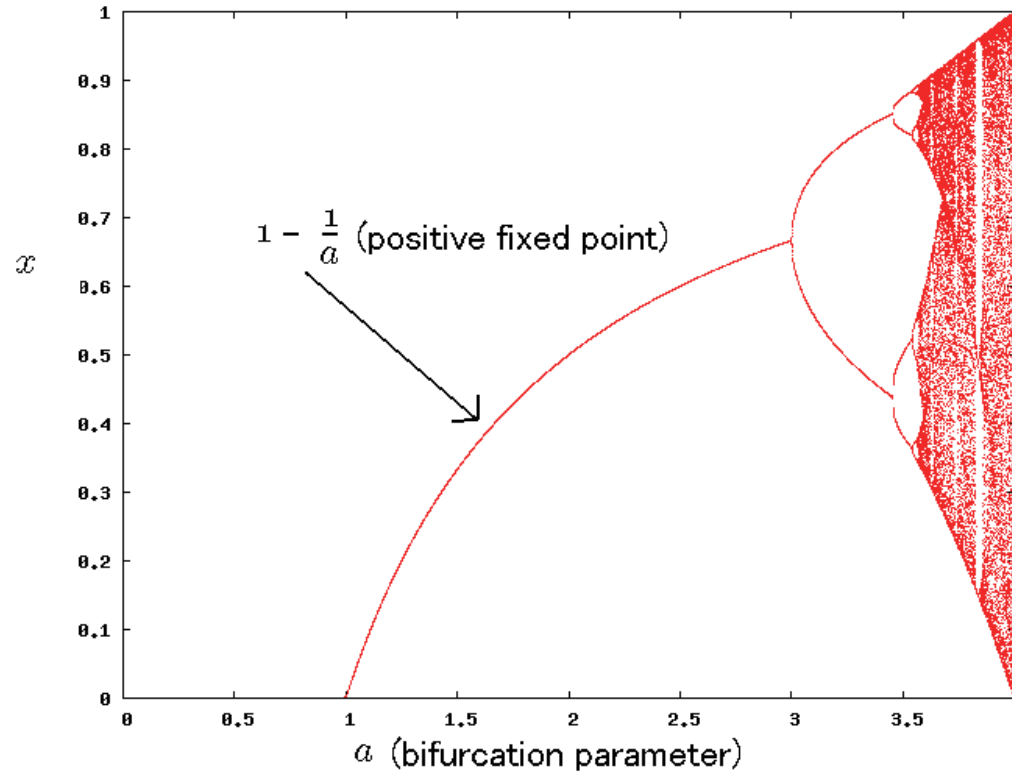
$a=2.9$



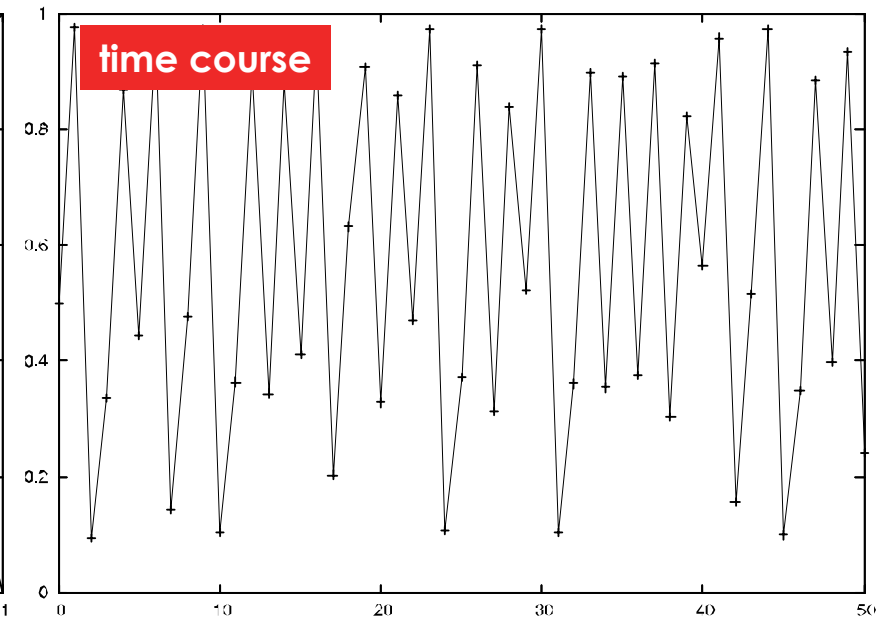
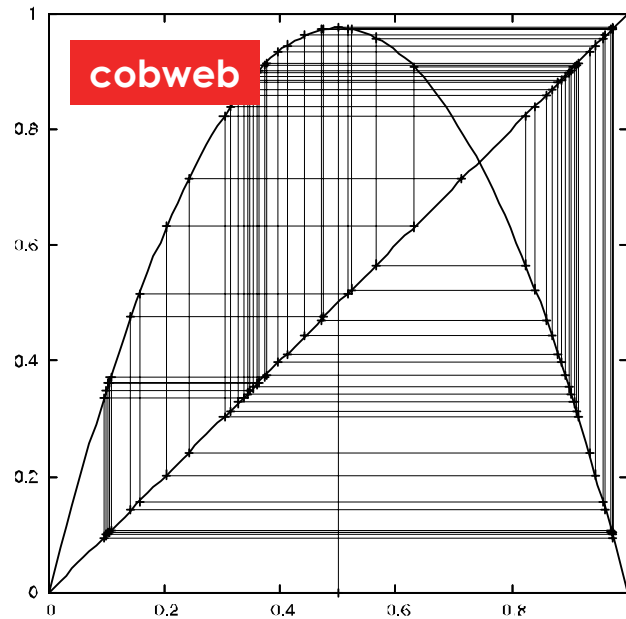


$a=3.1$

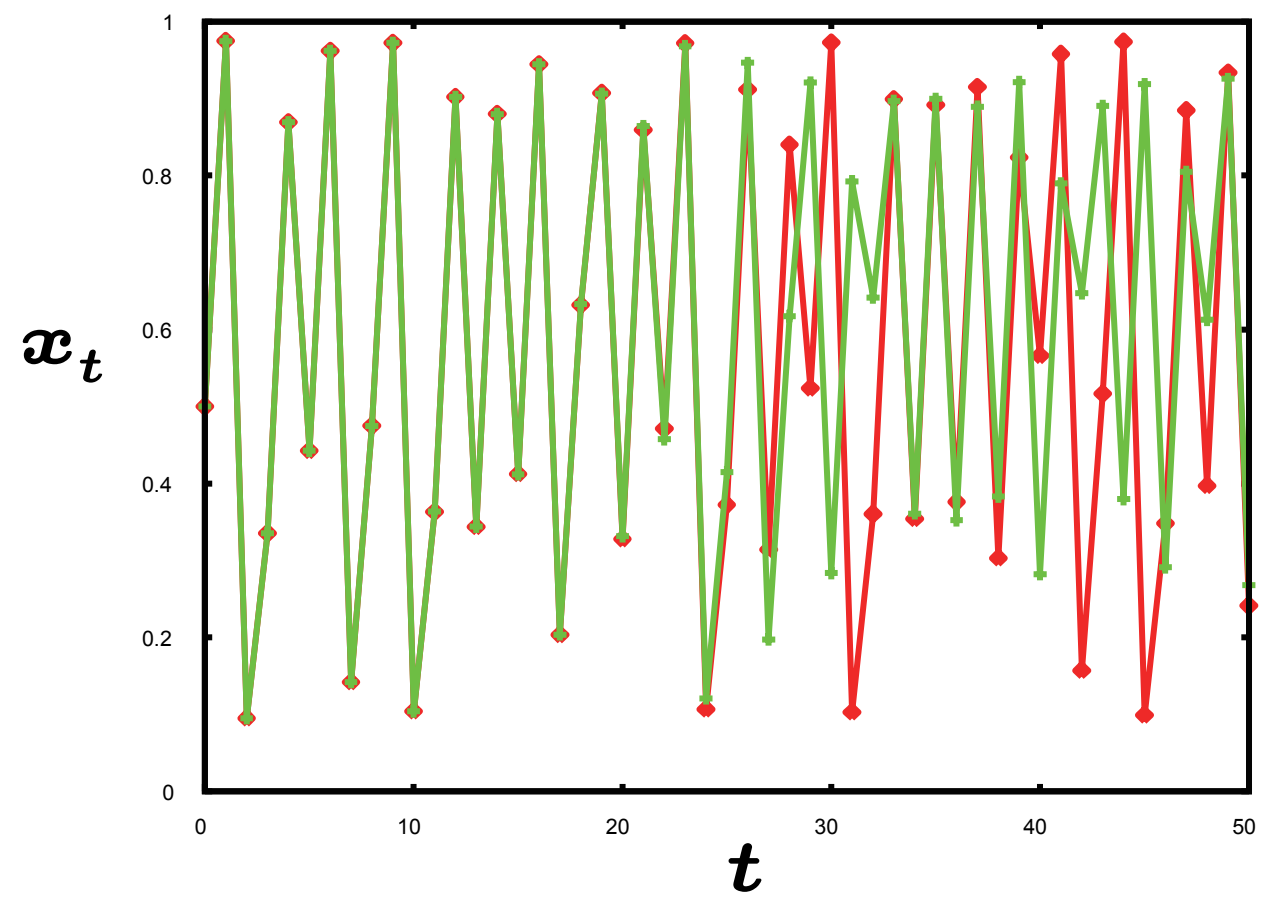




**a=3.9**



time course



$x_0=0.5$   
 $x_0=0.5001$   
 $\alpha=3.9$

Sensitive dependence on initial conditions

