

Evolutionary Dynamics Exercise 1

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Problem 1

(Solved in Tutorial)

Problem 2

- (a) Determine the equilibrium points x^* of the system.
- (b) Are the points stable for $r = 0.5$, $r = 1.5$, $r = 2.5$?
- (c) Confirm this by numerically iterating the difference equation
- (d) Examine the stability and behaviour for $r = 3.5$.

(e) What happens for $r = 3.9$?

Problem 3

(a)

(b) Numerically integrate to demonstrate the results above for $K = 1$.

(c) Numerically integrate to demonstrate the results above for $K = 1$.