Text

Description automatically generated

Chart

Description automatically generated

Solutions seem to converge to 0 or to (0, 3). Thus the longterm solution does depend on the initial conditions. It seems that most I.C converge to 0, however some reach stable populations.

C.P @ (0,0)Positive node and unstable,

(1,1) Saddle point and unstable,

(0,3) Improper node, sink, stable.

Text

Description automatically generated

Chart

Description automatically generated

Since there is no competition both populations grow until they hit their EQ.

C.P @ (0,0) proper node unstable.

C.P @ (3,0) saddle point unstable.

Chart

Description automatically generated