

①
 period 1 : 13
 period 2 : 12.9999
 period 3 : 12.9999
 period 4 : 12.9998

②

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Transformation T:
RT([x,y], 30)

Steady states found: , 2
SSg(RT([x,y], 30), [x,y])

Last point of orbit (iteration 1020):
ORB(RT([x,y], 30), [x,y], [100., 200.], 1000, 1020),

Error, (in IsNearSS) cannot determine if this expression is true or false: abs(-1
ORB(RT([x,y], 30), [x,y], [100., 200.], 1000, 1020)[5][1]+SSg(RT([x,y], 30), [x,y]
)[1]) < .1e-1 and abs(-1.*ORB(RT([x,y], 30), [x,y], [100., 200.], 1000, 1020)[5][2
]+SSg(RT([x,y], 30), [x,y], [1][2]) < .1e-1
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SUMMARY
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Total trials: 20
Number of failures: , 0
All trials converged successfully!
http://www.maple

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③

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Trial , 1
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Transformation T generated (3D)
RT([x,y,z], 10)

Steady states found: , 2
SSg(RT([x,y,z], 10), [x,y,z])

Last point of orbit (iteration 1020):
ORB(RT([x,y,z], 10), [x,y,z], [100., 200., 300.], 1000, 1020),

Error, (in IsNearSS) cannot determine if this expression is true or false: abs(-1.*ORB(RT([x,y,z],
10), [x,y,z], [100., 200., 300.], 1000, 1020)[5][1]+SSg(RT([x,y,z], 10), [x,y,z])[1][1]) < .1e-1 and
abs(-1.*ORB(RT([x,y,z], 10), [x,y,z], [100., 200., 300.], 1000, 1020)[5][2]+SSg(RT([x,y,z], 10), [x,
y,z])[1][2]) < .1e-1 and abs(-1.*ORB(RT([x,y,z], 10), [x,y,z], [100., 200., 300.], 1000, 1020)[5][3]+
SSg(RT([x,y,z], 10), [x,y,z])[1][3]) < .1e-1
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FINAL SUMMARY
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Total trials: 20
Number of failures: , 0

All 20 trials converged successfully!
In every case, the orbit converged to a steady state.
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(3)