> **read** "C:/Users/aks238/OneDrive - Rutgers University/Documents/M9.txt"

> *#OK to post*

> *#Anne Somalwar, 10.4.2021, hw8*

>

> *#1*

>

> $evalf\left(Orb\left(\frac{(1+9\,x)}{3+x}, x, 1, 1, 1000\right)\right);$

[2.500000000, 4.272727273, 5.425000000, 5.913946588, 6.083222370, 6.137579711, **(1)**
6.154607585, 6.159900110, 6.161541099, 6.162049516, 6.162206998, 6.162255775,
6.162270882, 6.162275561, 6.162277010, 6.162277459, 6.162277598, 6.162277641,
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>

> $FP\left(\frac{(1+9x)}{3+x}, x\right)$

$$[-0.162277660, 6.162277660] \quad \textbf{(2)}$$

> $SFP\left(\frac{(1+9x)}{3+x}, x\right)$

$$[6.162277660] \quad \textbf{(3)}$$

>

>

>

> *#2*

> *#k=1*

> *evalf*(*Orb*(*x*·(1 − *x*), *x*, 0.5, 1, 1000));

[0.25, 0.1875, 0.15234375, 0.1291351318, 0.1124592495, 0.09981216670, 0.08984969808, **(4)**
0.08177672983, 0.07508929629, 0.06945089387, 0.06462746721, 0.06045075769,
0.05679646358, 0.05357062530, 0.05070081340, 0.04813024092, 0.04581372083,
0.04371482382, 0.04180383800, 0.04005627713, 0.03845177179, 0.03697323304,
0.03560621308, 0.03433841067, 0.03315928422, 0.03205974609, 0.03103191877,
0.03006893879, 0.02916479771, 0.02831421228, 0.02751251766, 0.02675557903,
0.02603971802, 0.02536165111, 0.02471843776, 0.02410743659, 0.02352626809,
0.02297278280, 0.02244503405, 0.02194125450, 0.02145983585, 0.02099931130,
0.02055834022, 0.02013569487, 0.01973024866, 0.01934096595, 0.01896689299,
0.01860714996, 0.01826092393, 0.01792746259, 0.01760606867, 0.01729609502,
0.01699694012, 0.01670804415, 0.01642888541, 0.01615897713, 0.01589786459,
0.01564512249, 0.01540035263, 0.01516318177, 0.01493325969, 0.01471025744,
0.01449386577, 0.01428379362, 0.01407976686, 0.01388152702, 0.01368883023,
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> *#k= 2.5*

> $evalf(Orb(2.5 \cdot x \cdot (1 - x), x, 0.5, 1, 1000));$

[0.625, 0.5859375, 0.6065368652, 0.5966247410, 0.6016591485, 0.5991635438, **(6)**
0.6004164790, 0.5997913268, 0.6001042278, 0.5999478590, 0.6000260638,
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> *#k=3.1*

> $evalf(Orb(3.1 \cdot x * (1 - x), x, 0.5, 1, 1000))$

[0.775, 0.5405625, 0.7698995192, 0.5491781734, 0.7675026726, 0.5531711926, **(7)**
0.7662357553, 0.5552674201, 0.7655310881, 0.5564290480, 0.7651288638,
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> #k=3.5
> evalf(Orb(3.5·x*(1 - x), x, 0.5, 1, 1000))
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>
> #For k=1, x gets smaller and smaller. For k=2, it is constantly 0.5. For k = 2.5, it is constantly
     0.6. For k = 3.1 and 3.5, it oscillates between a few values. (As k varies, the equilibria
     change).
>
>  #3
>
> TwoOrb := proc( f, x, y,  x0, x1, K1, K2 ) local x2, x3, temp, i, L :
     #Method for solving second order nonlinear recurrence (x represents x[n-1] and y represents
     x[n-2])
  x2 := x0 :
  x3 := x1 :
  temp := x3 :
  for i from 1 to K1 do
  temp := x3 :
   x3 := subs( x = x3, y = x2, f ) :
  x2 := temp :

     #we don't record the first values of K1, since we are interested in the long-time behavior of
     the orbit
 od:

 L := [ x1 ] :

 for i from K1 to K2 do
   temp := x3 :
   x3 := subs( x = x3, y = x2, f ) :   #we compute the next member of the orbit
  x2 := temp :
```

```
L := [op(L), x3] : #we append it to the list
od:

L : #that's the output

end:
>
> evalf(TwoOrb((x + 9 y)/(x + 4 y), x, y, 0.5,  0.7, 1, 1000))
```

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> #This recurrence has steady states 2.000000000 and 2.000000001.
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