> *#HW8 - Alan Ho*

> *#OK to post*

> **read**("M9.txt")

> *Help9*( )

Orb(f,x,x0,K1,K2), Orb2D(f,x,x0,K) , FP(f,x) , SFP(f,x) , Comp(f,x) **(1)**

>

> *#1)*

> $f := \frac{1+9x}{1+x}$

$$f := \frac{1+9x}{1+x} \quad \textbf{(2)}$$

> *Orb*(*f*, *x*, .1, 1, 1000)

[1.727272727, 6.066666665, 7.867924527, 8.097872340, 8.120673527, 8.122871795, **(3)**
8.123083150, 8.123103465, 8.123105417, 8.123105605, 8.123105623, 8.123105626,
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> $SFP(f, x)$

$$[8.123105626] \quad (4)$$

> *#Yes there is a steady state at 8.123105625 and it is stable.*

#2)

> $f := x \cdot (1 - x)$

$$f := x\,(1 - x) \quad (5)$$

> $Orb(f, x, 0.5, 1, 1000)$

[0.25, 0.1875, 0.15234375, 0.1291351318, 0.1124592495, 0.09981216670, 0.08984969808, **(6)**
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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0.0009904080051]

> $SFP(f, x)$

$$[\ ] \tag{7}$$

> $f := 2\,x \cdot (1 - x)$

$$f := 2\,x\,(1 - x) \tag{8}$$

> $Orb(f, x, 0.5, 1, 1000)$

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> $SFP(f, x)$

$$[0.5000000000] \quad \textbf{(10)}$$

> $f := 2.5\,x \cdot (1 - x)$

$$f := 2.5\,x\,(1 - x) \quad \textbf{(11)}$$

> $Orb(f, x, 0.5, 1, 1000)$

[0.625, 0.5859375, 0.6065368652, 0.5966247410, 0.6016591485, 0.5991635438, **(12)**
0.6004164790, 0.5997913268, 0.6001042278, 0.5999478590, 0.6000260638,
0.5999869665, 0.6000065162, 0.5999967418, 0.6000016290, 0.5999991855,
0.6000004072, 0.5999997965, 0.6000001018, 0.5999999490, 0.6000000255,
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> $SFP(f, x)$

$$[0.6000000000] \quad (13)$$

> $f := 3.1\, x \cdot (1 - x)$

$$f := 3.1\, x\, (1 - x) \quad (14)$$

> $Orb(f, x, 0.5, 1, 1000)$

[0.775, 0.5405625, 0.7698995192, 0.5491781734, 0.7675026726, 0.5531711926, **(15)**
0.7662357553, 0.5552674201, 0.7655310881, 0.5564290480, 0.7651288638,
0.5570907254, 0.7648960122, 0.5574733184, 0.7647601349, 0.5576964201,
0.7646804816, 0.5578271524, 0.7646336632, 0.5579039753, 0.7646061018,
0.5579491938, 0.7645898618, 0.5579758355, 0.7645802878, 0.5579915410,
0.7645746417, 0.5580008029, 0.7645713114, 0.5580062657, 0.7645693466,
0.5580094885, 0.7645681875, 0.5580113900, 0.7645675037, 0.5580125116,
0.7645671004, 0.5580131731, 0.7645668623, 0.5580135637, 0.7645667218,
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> $SFP(f, x)$

$$[\ ] \tag{16}$$

>

> $f := 3.5\,x\cdot(1-x)$

$$f := 3.5\,x\,(1-x) \tag{17}$$

> $Orb(f, x, 0.5, 1, 1000)$

[0.875, 0.3828125, 0.8269348143, 0.5008976952, 0.8749971794, 0.3828199039, **(18)**
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> *SFP*(*f*, *x*)

[ ] **(19)**

> *#Only when k=2 and k=2.5 will there be a stable fixed point*

#3)

> $f := rsolve\left(\left\{x(n) - \frac{x(n-1) + 9\,x(n-2)}{x(n-1) + 6\,x(n-2)} = 0, x(0) = 0.5, x(1) = 0.7\right\}, x(n)\right)$

$$f := rsolve\left(\left\{x(n) - \frac{x(n-1) + 9\,x(n-2)}{x(n-1) + 6\,x(n-2)} = 0, x(0) = 0.5, x(1) = 0.7\right\}, x(n)\right) \quad \textbf{(20)}$$

> $Orb\left(\frac{1\,x - 9(x-1)}{1 + 6(x-1\ )}, x, 0.5, 1, 1000\right)$

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> *#The steady state is at -1.5 .*