```
> #OK to Post Homework!
  #Jeton Hida, Assignment 8, October 4, 2021.
  read "/Users/jeton/Desktop/Math 336/M9.txt"
> Help9()
```

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

```
> #Question 1
> f:=(1+7*x)/(1+1*x)
```

(2)

```
> a:=proc(n) option remember:
  if n=0 then
  1:
  else (1+7*a(n-1))/(1+1*a(n-1)):
  fi:
  end proc:
> seq(a(n), n=0..1000);
```

[Length of output exceeds limit of 1000000] **(3)**

```
> print(FP)
```

proc(f, x) $evalf([solve(f=x)])$ **end proc** **(4)**

```
> FP(f,x)
```

$$[-0.162277660, 6.162277660]$$ **(5)**

```
> SFP(f,x)
```

$$[6.162277660]$$ **(6)**

```
> #Sequencing wouldn't work, but we see steady points at the FP
  values, and the only stable one is the SFP value of 6.162277660.
> #Question 2
  print(Orb)
```

proc$(f, x, x0, K1, K2)$ **(7)**

```
    local x1, i, L;
    x1 := x0;
    for i to K1 do x1 := subs(x=x1,f) end do;
    L := [x1];
    for i from K1 to K2 do x1 := subs(x=x1,f); L := [op(L), x1] end do;
    L
end proc
> f:=1*x*(1-x)
```

$$f := x\,(1-x)$$ **(8)**

```
> Orb(f,x,.5,1,1000)
```

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0.001050833391, 0.001049729140, 0.001048627209, 0.001047527590, 0.001046430276,
0.001045335260, 0.001044242534, 0.001043152092, 0.001042063926, 0.001040978029,
0.001039894394, 0.001038813014, 0.001037733882, 0.001036656990, 0.001035582332,
0.001034509901, 0.001033439690, 0.001032371692, 0.001031305901, 0.001030242309,
0.001029180910, 0.001028121697, 0.001027064663, 0.001026009801, 0.001024957105,
0.001023906568, 0.001022858183, 0.001021811944, 0.001020767844, 0.001019725877,
0.001018686036, 0.001017648315, 0.001016612707, 0.001015579206, 0.001014547805,
0.001013518498, 0.001012491278, 0.001011466139, 0.001010443075, 0.001009422080,

0.001008403147, 0.001007386270, 0.001006371443, 0.001005358660, 0.001004347914,
0.001003339199, 0.001002332509, 0.001001327839, 0.001000325182, 0.0009993245315,
0.0009983258820, 0.0009973292274, 0.0009963345618, 0.0009953418792,
0.0009943511737, 0.0009933624394, 0.0009923756705, 0.0009913908610,
0.0009904080051]

```
> #k=1, values of x get closer to 0 each point in time
  f:=2*x*(1-x):
> Orb(f,x,.5,1,1000)
```

[0.50, 0.5000, 0.50000000, 0.5000000000, 0.5000000000, 0.5000000000, 0.5000000000, **(10)**
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```
> #Steady state at .5 when k=2
> f:=2.5*x*(1-x):
> Orb(f,x,.5,1,1000)
```

[0.625, 0.5859375, 0.6065368652, 0.5966247410, 0.6016591485, 0.5991635438, **(11)**
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,
0.5999999872, 0.6000000065, 0.5999999968, 0.6000000015, 0.5999999992,
0.6000000005, 0.5999999998, 0.6000000000, 0.6000000000, 0.6000000000,
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```
> #Eventually gets absorbed into .6 and stays there when k=2.5
> f:=3.1*x*(1-x)
```

$$f := 3.1\,x\,(1-x) \tag{12}$$

```
> Orb(f,x,.5,1,1000)
```

[0.775, 0.5405625, 0.7698995192, 0.5491781734, 0.7675026726, 0.5531711926, **(13)**
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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```
> #A period of 2 is shown between points .558 and .764 when k=3.1
```

```
> f:=3.5*x*(1-x)
```

$$f := 3.5\,x\,(1-x) \tag{14}$$

```
> Orb(f,x,.5,1,1000)
```

[0.875, 0.3828125, 0.8269348143, 0.5008976952, 0.8749971794, 0.3828199039, **(15)**
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