```
> #Please do not post homework
  #Shreya Ghosh, 10-04-2021
> #1.
```

$$F(x) := \frac{1 + 8\cdot x}{5 + x} :$$

```
> c := 1 :
  n := 0 :
  L := [ ] :
  do
  L := [op(L), evalf(F(c))] :
  c := F(c) :
  n := n + 1 :
  until n = 1000 :
> L
```

[1.500000000, 2., 2.428571429, 2.750000000, 2.967741935, 3.105263158, 3.188311688, **(1)**
3.237113402, 3.265331665, 3.281496063, 3.290705966, 3.295937384, 3.298903765,
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> *#There is a steady state around n=24 and it is stable*

>

> *#2.*
$f := \mathbf{proc}(k, x):$
$k \cdot x \cdot (1 - x):$
end:

> $G := [\ ]:$
$c := 0.5:$
$n := 0:$
do
$G := [op(G), f(1, c)]:$
$c := f(1, c):$
$n := n + 1:$

until $n = 1000$:

> G

[0.25, 0.1875, 0.15234375, 0.1291351318, 0.1124592495, 0.09981216670, 0.08984969808, 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, 0.01350144616, 0.01331915711, 0.01314175716, 0.01296905138, 0.01280085509, 0.01263699320, 0.01247729960, 0.01232161659, 0.01216979435, 0.01202169045, 0.01187716941, 0.01173610226, 0.01159836616, 0.01146384406, 0.01133242434, 0.01120400050, 0.01107847087, 0.01095573835, 0.01083571015, 0.01071829754, 0.01060341564, 0.01049098322, 0.01038092249, 0.01027315894, 0.01016762115, 0.01006424063, 0.009962951691, 0.009863691285, 0.009766398879, 0.009671016332, 0.009577487775, 0.009485759503, 0.009395779870, 0.009307499190, 0.009220869649, 0.009135845212, 0.009052381544, 0.008970435933, 0.008889967212, 0.008810935695, 0.008733303107, 0.008657032524, 0.008582088312, 0.008508436072, 0.008436042587, 0.008364875772, 0.008294904625, 0.008226099182, 0.008158430474, 0.008091870486, 0.008026392118, 0.007961969148, 0.007898576196, 0.007836188690, 0.007774782837, 0.007714335589, 0.007654824615, 0.007596228275, 0.007538525591, 0.007481696223, 0.007425720445, 0.007370579121, 0.007316253685, 0.007262726117, 0.007209978926, 0.007157995130, 0.007106758236, 0.007056252224, 0.007006461529, 0.006957371026, 0.006908966015, 0.006861232204, 0.006814155697, 0.006767722979, 0.006721920905, 0.006676736684, 0.006632157871, 0.006588172353, 0.006544768338, 0.006501934346, 0.006459659196, 0.006417931999, 0.006376742148, 0.006336079308, 0.006295933407, 0.006256294630, 0.006217153408, 0.006178500412, 0.006140326545, 0.006102622935, 0.006065380929, 0.006028592083, 0.005992248160, 0.005956341122, 0.005920863123, 0.005885806503, 0.005851163785, 0.005816927667, 0.005783091019, 0.005749646877, 0.005716588438, 0.005683909055, 0.005651602233, 0.005619661625, 0.005588081028, 0.005556854379, 0.005525975748, 0.005495439340, 0.005465239487, 0.005435370644, **(2)**

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```
> J := [ ] :
  c := 0.5 :
  n := 0 :
  do
  J := [op(G), f(2, c)] :
  c := f(2, c) :
  n := n + 1 :
  until n = 1000 :
> J
```

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```
> K := [ ] :
  c := 0.5 :
  n := 0 :
  do
  K := [op(K), f(2.5, c)] :
  c := f(2.5, c) :
  n := n + 1 :
  until n = 1000 :
> K
```

[0.625, 0.5859375, 0.6065368652, 0.5966247409, 0.6016591485, 0.5991635437, 0.6004164789, **(4)**

0.5997913268, 0.6001042277, 0.5999478589, 0.6000260637, 0.5999869664, 0.6000065164,
0.5999967417, 0.6000016290, 0.5999991853, 0.6000004072, 0.5999997964, 0.6000001018,
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> S := [ ]:
  c := 0.5 :
  n := 0 :
  do
  S := [op(S), f(3.1, c)] :
  c := f(3.1, c) :
  n := n + 1 :
  until n = 1000 :
> S
```

[0.775, 0.5405625, 0.7698995191, 0.5491781737, 0.7675026722, 0.5531711932, 0.7662357551, **(5)**
0.5552674204, 0.7655310878, 0.5564290483, 0.7651288639, 0.5570907251, 0.7648960123,
0.5574733182, 0.7647601347, 0.5576964204, 0.7646804814, 0.5578271525, 0.7646336635,
0.5579039749, 0.7646061020, 0.5579491934, 0.7645898623, 0.5579758348, 0.7645802880,
0.5579915408, 0.7645746415, 0.5580008032, 0.7645713112, 0.5580062661, 0.7645693466,
0.5580094885, 0.7645681875, 0.5580113898, 0.7645675037, 0.5580125114, 0.7645671003,
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```
> T := [ ] :
  c := 0.5 :
```

```
n := 0 :
do
T := [op(T), f(3.5, c)] :
c := f(3.5, c) :
n := n + 1 :
until n = 1000 :
```

```
> T
```

[0.875, 0.3828125, 0.8269348145, 0.5008976948, 0.8749971796, 0.3828199036, 0.8269408878, 0.5008837955, 0.8749972660, 0.3828196767, 0.8269407011, 0.5008842229, 0.8749972634, 0.3828196836, 0.8269407073, 0.5008842088, 0.8749972637, 0.3828196828, 0.8269407065, 0.5008842106, 0.8749972636, 0.3828196831, 0.8269407068, 0.5008842099, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, 0.3828196825, 0.8269407063, 0.5008842110, 0.8749972633, 0.3828196839, 0.8269407075, 0.5008842082, 0.8749972638, **(6)**

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> *#There is no steady state at k = 1, there is a steady state at k = 2, there is a steady state at k=2.5 at 0.6, there are two steady states at k=3.1 at 0.55 and 0.76, and there are three steady states at k=3.5 at 0.5, 0.87 and 0.38.*

>

> *#3.*

>

> $p(x, y) := \dfrac{x + 8 \cdot y}{x + 5 \cdot y};$

$$p := (x, y) \mapsto \frac{x + 8 \cdot y}{x + 5 \cdot y} \tag{7}$$

> $c := 0.5 :$

> $d := 0.7 :$

> $n := 0 :$
$P := [\ ] :$

> **do**
$r := p(c, d) :$
$P := [op(P), r] :$
$d := c :$
$c := r :$
$n := n + 1 :$

until $n = 1000$:

> P

[1.525000000, 1.372670807, 1.508464924, 1.491889808, 1.500917352, 1.499496251, **(8)**
1.500078915, 1.499967621, 1.500006183, 1.499997858, 1.500000462, 1.499999855,
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