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> #Not okay to post
> #Anusha Nagar, Homework 8, 10.4.2021
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> #Problem 1
> #My RUID: 185007365
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> f_x := (1 + 8*x) / (5 + x);
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$$f_x := \frac{1 + 8x}{5 + x}$$

(1)

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> a := proc(n) option remember;
if n = 0 then
  1 :
else
  (1 + 8*(n - 1)) / (5 + 1*(n - 1)) :
fi;
end;
```

```
evalf(seq(a(i), i = 1 ..1000));
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7.961116650, 7.961155378

>  
=>  
> *#The steady state seems to be around 7.96-8. It seems stable.*

>  
=>  
>  
=>  
> *#Problem 2*

> *k1 := 1*

```

k1 := 1 (3)
> k2 := 2 k2 := 2 (4)
> k3 := 2.5 k3 := 2.5 (5)
> k4 := 3.1 k4 := 3.1 (6)
> k5 := 3.5 k5 := 3.5 (7)
> b := proc(n) option remember :
if n = 0 then
0.5 :
else
k1 · (n - 1) · (1 - (n - 1)) :
fi:
end:
evalf(seq(b(i), i = 1 ..1000));
0., 0., -2., -6., -12., -20., -30., -42., -56., -72., -90., -110., -132., -156., (8)
-182., -210., -240., -272., -306., -342., -380., -420., -462., -506., -552.,
-600., -650., -702., -756., -812., -870., -930., -992., -1056., -1122.,
-1190., -1260., -1332., -1406., -1482., -1560., -1640., -1722., -1806.,
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>  $c := \text{proc}(n)$  option remember :

```
if n = 0 then
  0.5 :
else
  k2 · (n - 1) · (1 - (n - 1)) :
fi:
end:
```

```
evalf(seq(c(i), i = 1 .. 1000));
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× 10<sup>6</sup>, –1.023880 × 10<sup>6</sup>, –1.026744 × 10<sup>6</sup>, –1.029612 × 10<sup>6</sup>, –1.032484 × 10<sup>6</sup>,  
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× 10<sup>6</sup>, –1.049800 × 10<sup>6</sup>, –1.052700 × 10<sup>6</sup>, –1.055604 × 10<sup>6</sup>, –1.058512 × 10<sup>6</sup>,  
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× 10<sup>6</sup>, –1.076044 × 10<sup>6</sup>, –1.078980 × 10<sup>6</sup>, –1.081920 × 10<sup>6</sup>, –1.084864 × 10<sup>6</sup>,  
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× 10<sup>6</sup>, –1.102612 × 10<sup>6</sup>, –1.105584 × 10<sup>6</sup>, –1.108560 × 10<sup>6</sup>, –1.111540 × 10<sup>6</sup>,  
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× 10<sup>6</sup>, –1.129504 × 10<sup>6</sup>, –1.132512 × 10<sup>6</sup>, –1.135524 × 10<sup>6</sup>, –1.138540 × 10<sup>6</sup>,

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 $\times 10^6, -1.212124 \times 10^6, -1.215240 \times 10^6, -1.218360 \times 10^6, -1.221484 \times 10^6,$   
 $-1.224612 \times 10^6, -1.227744 \times 10^6, -1.230880 \times 10^6, -1.234020 \times 10^6, -1.237164$   
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 $\times 10^6, -1.978060 \times 10^6, -1.982040 \times 10^6, -1.986024 \times 10^6, -1.990012 \times 10^6,$   
 $-1.994004 \times 10^6$

```

> d := proc(n) option remember :
if n = 0 then
  0.5 :
else
  k3 · (n - 1) · (1 - (n - 1)) :
fi:
end:

```

```

evalf(seq(d(i), i = 1 .. 1000));
0., -5.0, -15.0, -30.0, -50.0, -75.0, -105.0, -140.0, -180.0, -225.0, -275.0,
-330.0, -390.0, -455.0, -525.0, -600.0, -680.0, -765.0, -855.0, -950.0,
-1050.0, -1155.0, -1265.0, -1380.0, -1500.0, -1625.0, -1755.0, -1890.0,
-2030.0, -2175.0, -2325.0, -2480.0, -2640.0, -2805.0, -2975.0, -3150.0,

```

(10)

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$-2.4329550 \times 10^6, -2.4378900 \times 10^6, -2.4428300 \times 10^6, -2.4477750 \times 10^6,$   
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 $-2.4725750 \times 10^6, -2.4775500 \times 10^6, -2.4825300 \times 10^6, -2.4875150 \times 10^6,$   
 $-2.4925050 \times 10^6$

>  $e := \text{proc}(n)$  **option remember** :

**if**  $n = 0$  **then**

0.5 :

**else**

$k4 \cdot (n - 1) \cdot (1 - (n - 1))$  :

**fi**:

**end**:

$\text{evalf}(\text{seq}(e(i), i = 1 .. 1000))$ ;

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 $-3.0907062 \times 10^6$

```

> f := proc(n) option remember ;
  if n = 0 then
    0.5 :
  else
    k5 · (n - 1) · (1 - (n - 1)) :
  fi:
end:

```

```
evalf(seq(f(i), i = 0 .. 1000));
```

0.5, 0., 0., -7.0, -21.0, -42.0, -70.0, -105.0, -147.0, -196.0, -252.0, -315.0,  
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–2.4432100 × 10<sup>6</sup>, –2.4490620 × 10<sup>6</sup>, –2.4549210 × 10<sup>6</sup>, –2.4607870 × 10<sup>6</sup>,  
–2.4666600 × 10<sup>6</sup>, –2.4725400 × 10<sup>6</sup>, –2.4784270 × 10<sup>6</sup>, –2.4843210 × 10<sup>6</sup>,  
–2.4902220 × 10<sup>6</sup>, –2.4961300 × 10<sup>6</sup>, –2.5020450 × 10<sup>6</sup>, –2.5079670 × 10<sup>6</sup>,  
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–2.9334900 × 10<sup>6</sup>, –2.9399020 × 10<sup>6</sup>, –2.9463210 × 10<sup>6</sup>, –2.9527470 × 10<sup>6</sup>,  
–2.9591800 × 10<sup>6</sup>, –2.9656200 × 10<sup>6</sup>, –2.9720670 × 10<sup>6</sup>, –2.9785210 × 10<sup>6</sup>,

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 $-3.0630600 \times 10^6, -3.0696120 \times 10^6, -3.0761710 \times 10^6, -3.0827370 \times 10^6,$   
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 $-3.1421460 \times 10^6, -3.1487820 \times 10^6, -3.1554250 \times 10^6, -3.1620750 \times 10^6,$   
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 $-3.2761960 \times 10^6, -3.2829720 \times 10^6, -3.2897550 \times 10^6, -3.2965450 \times 10^6,$   
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 $-3.4685700 \times 10^6, -3.4755420 \times 10^6, -3.4825210 \times 10^6, -3.4895070 \times 10^6$

> #We notice that for  $k = \text{anything but } 1$ , we have two points where the system tries to go to steady state - one is really high and one is a really small number

> #Problem 3

> #MY RUID: 185007365

>  $g := \text{proc}(n)$  option remember :

if  $n = 0$  then

0.5 :

elif  $n = 1$  then

0.7 :

else

$\frac{((n - 1) + 8 \cdot (n - 2))}{((n - 1) + 6 \cdot (n - 2))}$  :

fi:

end:

$\text{evalf}(\text{seq}(g(i), i = 0 .. 1000));$

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