

+ 2&yTx*≠KKGFÇY

\$AKL'G <# <A # =FLAD# M9LAGFKdJGFLAFM=<du

2@K>F9D " #J=NAO DKKGF HJ≠FLKIQHA9DE G<=IKL@LD9<LGKAF?D=G E MDAID<A # =FLAD# M9
LAGFKz&ADJ,4T,3du

*F=9J +G<=IX

'F E 9FQE G<=IKL@J9L=G>J GOL@KHJGHJLAF9DLG@=; MJ=FLK9L=
u' "q#Y huzu"Ç#Y uç

9; L=AD?JGOL@

*=LM'q# <=FG=; MJ=FLHGM9LAF3h L@=?JGOL@9L=

In[65]=

```
$%) 0ÖN %E0N ? öZ )# ) 0,ö ? 0öZ  
M F ) $3I FP?,1$%8 ) #38 0,N-8 NHÖ8 ÖP
```

Out[66]=

```
0-N. , ^EN 0ö
```

" =>F=KGE =; GE E GF HÖLGHAFK>9J =MK=

In[67]=

```
J FN J N )
```

```
1 LC>, CH?M" ! ONI G; NC=8 OFI N, ; <?F h NCF?8 &L; G? h 4LO?8 &L; G? , ; <?F h RSF; <?FZ
```

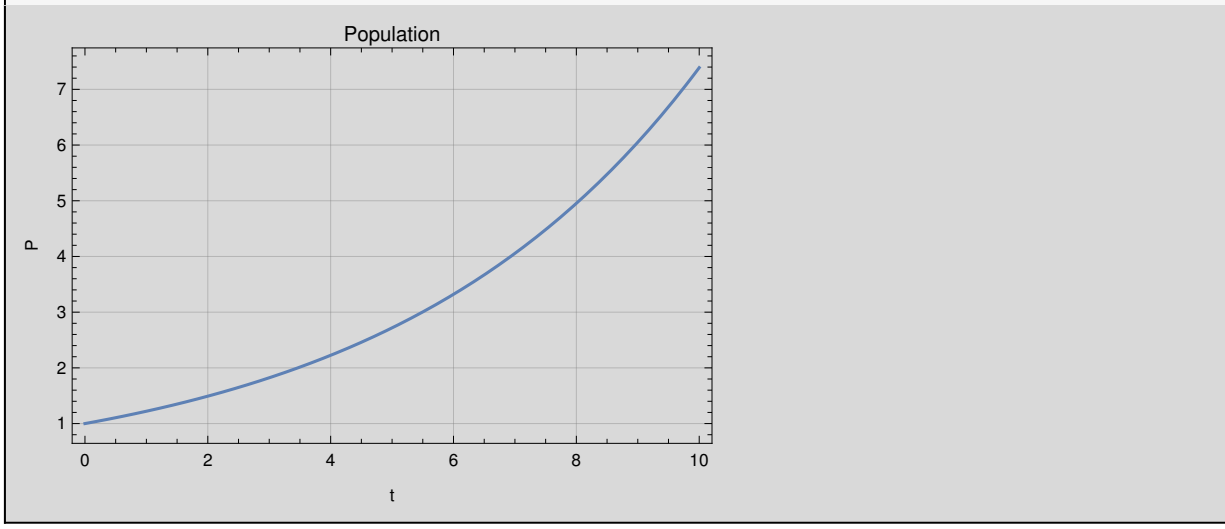
. ÖLL@=KGMAGF

In[68]:=

```

OFI N0,N 'd M F 'd 1E h òd68 0ò h Ô88 1N8 ò8 Ôò33
%P; FQ; N2,J FN J N 'd 1NCF? h ò0I J OF; NCI H58 RSF; <?F h 1òN68 ò0ò33-
    
```

Out[68]=



09<A39; LAN=<=, 9Q

```

*->"q# <FGL=; MJ=FLFME : ÷ G>KLG HK/h L@=<=, 9QJ9L=
    
```

In[69]:=

```

$%) ! ÒN $ E!,N ? òZ )# ) !,ò- ? !òZ
M F ) $3I FP?,1$%8 ) #3!,N-8 N+08 Ôp
    
```

Out[70]=

```

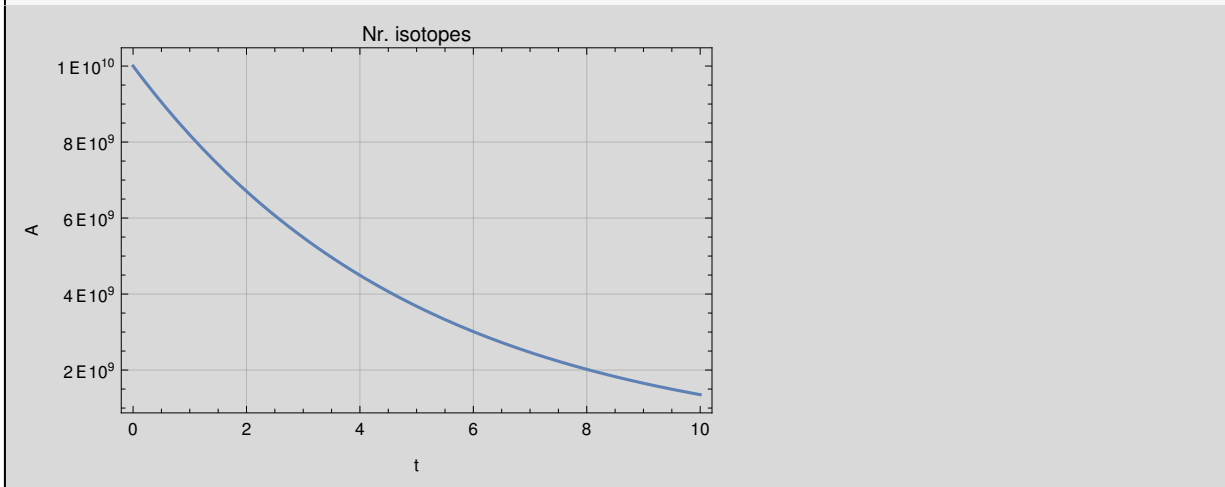
!-N, ! ò 'δEN
    
```

In[71]:=

```

OFI N0,N 'd M F 'd ÆE h òd68 !ò h Ôò88 1N8 ò8 Ôò33
%P; FQ; N2,J FN J N 'd 1NCF? h ò. Ld CM N J ?M68 RSF; <?F h 1òN68 ò! ò33é
    
```

Out[71]=



*O; A; MA

F A K J A K = D; U A 9 D A; M A G K G M; = b " q z j = K A L G O 3 9 F < A < M L G / ? A H K " #

I f % O f y b " q #

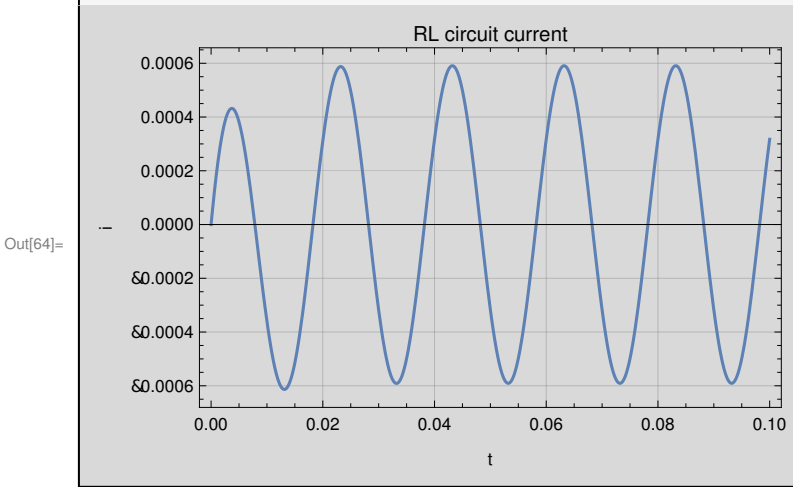
OFI N E , N ' d M F ' d E h o d o s ! o h O o s 1 N 3 o s O o s
 % P; F O; N ; J F N J N ' d 1 N C N F ? h o . L d C M N J ? M o s R S F; < ? F h 1 o N o s o ! o s e

In[52]= \$ %) , C O N \$ 2 C N ? ? , N z) #) C o - ? o z
 M F) \$ 3 I F P ? , \$ % s) # 3 ' d ? , N h O o s # M O o s - N 8 C , N 8 N H O s O p

Out[53]=
$$C-N, \frac{O o s ' \frac{2N}{s} \& 2 \% ' \frac{2N}{s} 2 \# M O o s - N \% O o s ' \frac{2N}{s} , - 3 C H O o s - N o}{O o s o o s , o - o \% 2 o}$$

M D I ; J N C H M ; F F A P

In[64]= OFI N E , N ' d M F ' d O h O o s , h R o o s 1 N 3 o s o d o s % P; F O; N ;
 J F N J N ' d 1 N C N F ? h o 2 , = C L = O C N = O L L ? H N o s R S F; < ? F h 1 o N o s o C o s 3 8 O F I N 2 ; H A ? h ! F F e



B = J A A 9 D J 9 F K A F L 3 L @ = ; A ; M A K 1 9 : A R K 9 L ; M J = F L A H G K < : Q K G M ; = 3

, G F A E = 9 J E G < = D X

4 9 J A 9 : D = H G H M 9 L A F ? J G O L @ 9 L = d O ? A K A = M 9 L A F d

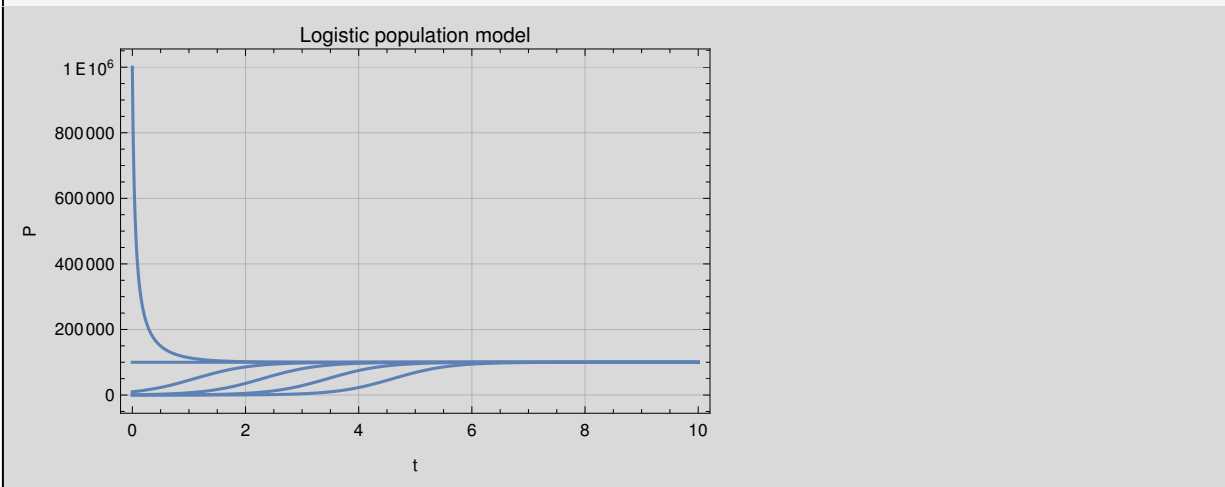
N A G F E = F L 9 D ; G F K J 9 A K L G F H G H M 9 L A F ? J G O L @ ; 9 F : = E G < = D X : Q L @ = D ? A K A = M 9 L A F

In[91]:=

```

OFI N4; <F?d,N 'd. M F 'd. Ô+ h ÔR'8 L h ô8 0ô h Ô' s j 8 Ô8 f 33 1N8 ô8 Ôô33
%P; FQ; N2, J FN J N 'd. 1NCF? h ô, I ACMC= J I J OF; NCI H G >?Fô8 RSF; <?F h 1ôNô8 ôôô33-8
OFI N2; HA? h ! FFê
    
```

Out[91]=



1QLE KG>AKL'G <J <A J =FLADH MBLAFK

. J=>9LG 4J =QE G<=D

\$GP=Kc"q#H=QGF J9: : AKo"q3; ML9; CF? HJ=QL@=>EPHGIM9LAF OGMB<=<J=9K=Z@=J9: : A.HG-M9ü
 LAF AF; J=9K=KdN=?=9LAF AK J=Q9N9A9: D=AF 9: K=F; =G>EP=KZ@=E 9PAE ME FME : J G>J9: : Aü>EP
 =F; GMFL=JKAc "q#b"q3Z@=J=KMDA? dGLC94GD=J9dE G<=DK

c¹y &^c%_c o3d¹y `o&a c o

In[114]=

```

$%) 1@Q,N? % @N $ <@N-EL,N-8 LQ,N? =L,N %>@N-EL,N-3Z
)# ) 1@ô-? r'8 L,ô-? r'3Z
)60 ) &F; NNPH,1$%8) #3Z
J; L; GM) 1; h ôdÔr'8 < h ôdôù8 = h r'dR8 > h ôdû3Z
    
```

F 9F9Q1A9DKGMAF G>L@=9: GN=FGF4A=9J KQL-E AKL=<AGMKLG G L9AF3! GE HM=9 FME JAJ9D
 9HJCPAE 9LAF

In[122]=

M F) . \$3I FP?,) 60 'd J ; L; GMB 1@N-8 L,N-33 1N8 ò8 òð3+0P

Out[122]=

8@N. ,) HN?LJ I F; NCHA&OH=NCI Hù +  Domain: 20., 20.3 t-N.8
Output: scalar

L-N. ,) HN?LJ I F; NCHA&OH=NCI Hù +  Domain: 20., 20.3 t-N.0
Output: scalar

In[127]=

OFI N,1@N- 'd M F8 L,N- 'd M F33 1N8 ò8 òð33
%P; FQ; N, J FN J N 'd 1NCF? h ò, I NE; %6I FN?LL; GI >?Fò8 RSF; <?F h 1òNò8 ò@8Lò3-8
OFI N, ?A?H>Mh 1ò&I R?Mò8 ò2; <<CNMò3

Out[127]=

