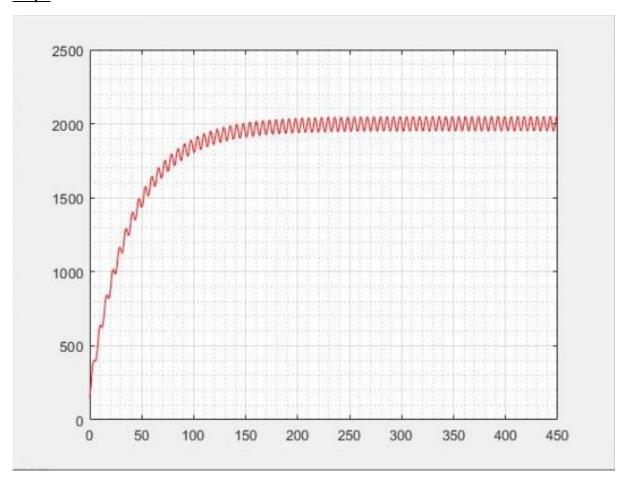
Name Horry Godin Mar No 17/4NG OC 1 035 ENC 282 Accomplator rate a input rate occipation dm = mie = mous My = (1+5m+) 16 x 50 muons = 50 (1+5m+1) 16 Billing mour = algalia 2000 vater mout terra 02 PODAyatter 3. 0.025 gallenger were runs and bence 3:045 met morend an = 50 (Henry) - 0 Dacy 3m +0 000m -50 (1+5mt) company to by + By - 8 dy = 2m, 2+ = 0x , 14 = 0.005, 1 = 50 ( + + + m + ) m. H = JOH H where H = e The SPA = So 025A = 0.025+ 17 - c 0 cas+ . me sour = [so(1+smt) = cooust or mee our . softe pour , eo oust ant file ene a ox - 50 \$ (= 0x) + Je " 02 + 1 = 0 Jeoroset supt it - uv - Juliu. 4 = 6 0250

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   Le n'aus dine de en act + a par e a parent - 6 as int je a se men at
                      Consupring the size terms for both callation
    1 1 000 cas Je 0 000 sent 1 = e 0 000 + 1 - went + 0 000 ant 3
          court smith = coopt for was that - court f - 1
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         m = 2000 + 49 659 ( = 025 cm + cb+ } + FOR
       fecaul Had m(0) = 350
     Thenre
 150 = 2000 + 49 96 $000 cm (a) - cos (a) } + 50c
                                                                                                                                    e 9 (001 (0)
 150 _ 2000 + 45 569 75) + Dic
    USD - 1950-031 - 602
     C = -1950 031 + 160 _ - 0.00
                     53)
    C = _ 36 0062
thence mobal equation -
   n - 2000 + 50 | 0 0 as mint - cort |
                                  1 500 GAS
                                       500-31
```

m - 2000 + 18 | 247500+ - 50cort - 1960e - 0.026+

```
1 -
       commandwindow
 2 -
        clc
 3 -
        close all
       syms y
       y=dsolve('Dy=(50*(1+sin(t))- (0.025*y))','y(0)=150')
       pretty (y)
        t=0:0.5:450
 8 -
       yn=subs(y,t)
       plot(t, yn, 'red')
 9 -
10 -
       grid on
11 -
       grid minor
12
13
14
15
16
17
```

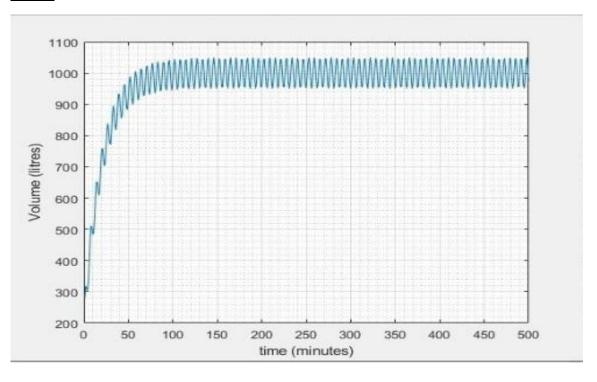
### **Graph**



#### **NUMBER 2**

```
1 -
       commandwindow
2 -
       clear
3 -
       clc
       close all
4 -
5
6 -
       syms time
7 -
       x = [];
8 -
       time = 1:1:500;
9 -
       y = (50/0.05) + (50/1.0025)*sin(time) + (2.5/1.0025)*cos(time) - ((exp(-0.05)*time))
10 -
       ymean = 1000 - ((exp(-0.05*time))*800);
       if rem(time, 2) == 0
11 -
12 -
           x = [x, ymean];
13 -
       else
           x = [x, y];
14 -
15 -
       end
16 -
       excelvalues = transpose(x);
17 -
       mins = transpose(time);
18 -
       plot(time, x)
19 -
       grid on
20 -
       grid minor
21 -
       xlabel('time (minutes)')
22 -
       ylabel('Volume (litres)')
23 -
       xlswrite('odevbesdata.xlsx', {'time (min)'}, 'Veriler', 'Al')
       xlswrite('odevbesdata.xlsx', {'V (litres)'}, 'Veriler', 'Bl')
24 -
25 -
       xlswrite('odevbesdata.xlsx', mins, 'Veriler', 'A2')
26 -
       xlswrite('odevbesdata.xlsx', excelvalues, 'Veriler', 'B2')
```

#### **GRAPH**



## Below are the values generated from Excel

# First range of values:

## t(min) V(Litre) 1 279.9639 2 276.1301 3 313.8601 4 345.0154 5 327.9009 6 407.3454 7 469.1423 8 463.744 9 506.5922 10 514.7755 11 487.1398 12 560.9507 13 604.2824 14 602.7318 15 651.4694 16 640.5368 17 608.3676 18 674.7443 19 699.585 20 705.6964 21 759.541 22 733.7031 23 702.3679 24 759 0446 veriler

# Last range of values:

90	veriler
500	1000
499	1022.316
498	1000
497	1031.335
496	1000
495	951.6039
494	1000
493	1008.945
492	1000
491	1040.952
490	1000
489	956.9717
488	1000
487	994.8607
486	1000
485	1047.306
484	1000
483	965.767
482	1000
481	981.1861
480	1000
479	1049.892
478	1000
477	977.2894