

C:\Users\Alegs\Documents\Matlab 2014b\Serial\bin\pit.m

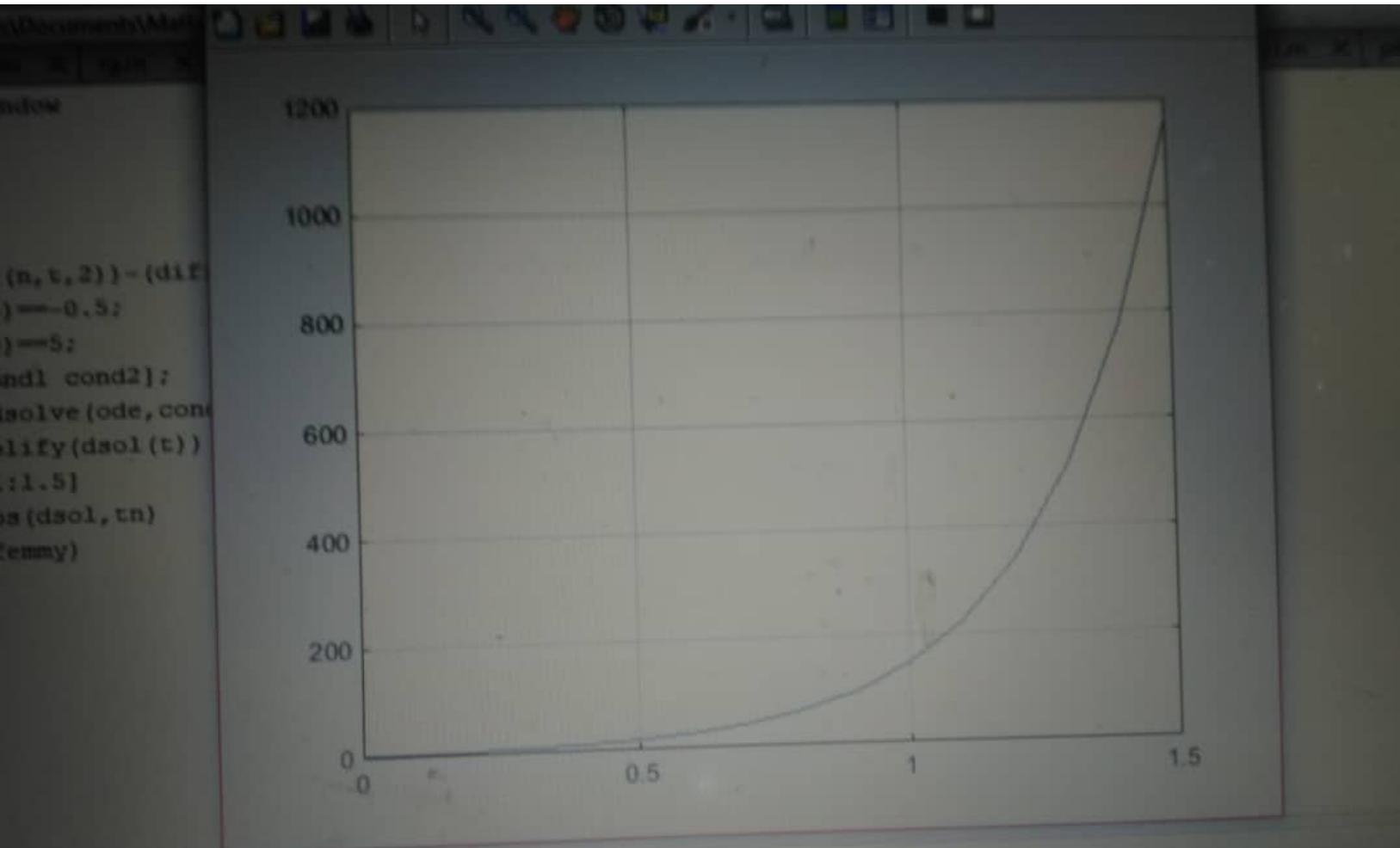
```
+20 oo.m X pit.m X rg.m X n.m X test.m X ttui.m X www.m X ylm.m X
  1 - commandwindow
  2 -
  3 - close all
  4 - syms n(t)
  5 - D=diff(n)
  6 - ode=(diff(n,t,2))-(diff(n,t))-(12*n)==144*t^3+12.5;
  7 - cond1=D(0)==-0.5;
  8 - cond2=n(0)==5;
  9 - cond3=[cond1 cond2];
 10 - dsol(t)=dsolve(ode,conds);
 11 - dsol=simplify(dsol(t))
 12 - tn=[0:0.1:1.5]
 13 - femmy=subs(dsol,tn)
 14 - plot(tn,femmy)
 15 - grid on
 16 -
```

T

ilder
me ▲
SON1.m
n
ssignment.m
atlab.bat
atlab.exe
atlab eng ma...
atlab eng ma...
build.bat
cc.bat
emShieldStar...
ex.bat
ex.pl
nexext.bat
nexsetup.pm
nexutils.pm
mw_mpiexec.bat
nh.m
oo.m
pit.m
pit2.m
pt1.m
rg.m
rm
test.m

Command Window

* * * * *



```
(n,t,2))-(diff(y(t),t,2)+0.5*y(t)+5);  
end1 cond2];  
solve(ode,cond1,cond2);  
lifify(dsol(t));  
t:=[0.1..1.5]  
plot(dsol,tn);  
femmy;
```

$y(t) = 319/250 + 3\exp(6/5)t + 2\exp(-9/10)t^2$

PUBLISH VIEW

File Run Run Section Run and Time

Breakpoints Run Run and Advance Advance

IMPORTS RUN

bin >

Editor - C:\Users\user\Desktop\Serial\bin\bursttt3.m

```
1 - commandwindow
2 - clear
3 - clc
4 - syms f(s) s
5 - u = (3.142)/((s^2) + 15*3.142*s + 24*(3.142^3))
6 - ilaplace(u)
```

Command Window

s =

1671/(300*(s^2 + 15*3.142*s) + 24*(3.142^3))

ans =

1671/300/(s^2 + 15*3.142*s + 24*(3.142^3))

The image shows a MATLAB graphical user interface. At the top is a menu bar with options like File, Edit, View, etc. Below the menu is a toolbar with icons for Breakpoints, Run, Run and Advance, and Run Section. A navigation bar indicates the current path: bin > Editor - C:\Users\user\Desktop\Serial\bin\burstttt2.m. The main area contains a code editor with several tabs: eng38122.m, ENG381A3.m (which is currently selected), laplace.m, and matla. The code in the editor is:

```
1 - commandwindow
2 - clear
3 - clc
4 - syms k w t s f(t) f(s) a
5 - z = k*exp(-a*t)*sin(5*w*t)*cos(3*w*t)
6 - laplace(z)
```

Command Window

$\text{z} =$

$457127175000 \cdot e^{-4 \cdot 15703 \cdot s} \cdot \cos(3 \cdot 15703 \cdot s) + 114368746812767 \cdot$

$\sin(5 \cdot 15703 \cdot s)$