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**16/ENG06/088**

**Mechanical engineering**

1A) commandwindow

clear

clc

close all

x=0:0.001:15

y=(1/7200)\*(37.5\*(x.^2)-10\*(x.^3)+(x.^4))

plot(x,y)

grid on

grid minor

xlabel('x')

ylabel('y')



1B)commandwindow

clear

clc

close all

t = 0:0.001:1

n= ((29/14)\*exp(4\*t))+((41/14)\*exp(-3\*t))-(12\*(t.^3))-(12\*(t.^3))+(3\*(t.^2))-((13/2)\*t)

plot(t,n)

grid on

grid minor

xlabel('t')

ylabel('n')

