

```
mathtest.m x Untitled2 x +
1 -   commandwindow
2 -   clear
3 -   clc
4 -   close all
5 -   A = [0,10,4,-2;-3,-17,1,2;1,1,1,0;8,-34,16,-10]
6 -   b = [4;2;6;4]
7 -   r = inv(A)
8 -   X = r*b
9 -   commandwindow
10 -  clear
11 -  clc
12 -  close all
13 -  syms t
14 -  tn = [0:0.01:2.5]
15 -  e = 8.85*10^(-12)
16 -  d = ( 1.5*e^(-0.75*t))*sin(0.85*t) + 0.375*t
17 -  dn = subs(d,tn)
18 -  figure(1)
19 -  plot(tn,dn)
20 -  grid on
21 -  grid minor
22 -  axis equal
23 -  xlabel('Time (s)')
24 -  ylabel('Displacement (m)')
25 -  legend('Displacement (m)', 'Displacement (m)')
26 -  commandwindow
27 -  clear
28 -  clc
```