

Editor - C:\Users\HP\exam7.m

+21 matlab23.m x exam1.m x exam2.m x exam3.m x exam4.m x exam5.m x exam6.m

```
1 - commandwindow
2 - clear
3 - clc
4 - syms y(t) x(t)
5 - ola=diff(y,t)-2*x==exp(-2*t)
6 - ola2=diff(x,t)+y==exp(-t)
7 - ola3=[ola,ola2]
8 - cond=[y(0)==0,x(0)==0]
9 - [yeq xeq]=dsolve(ola3,cond)
10 - fplot (yeq)
11 - hold on
12 - fplot (xeq)
13 - grid on
14 - grid minor
```

I

Editor - C:\Users\HP\exam6.m

+21 matlab23.m x exam1.m x exam2.m x exam3.m x exam4.m x exam5.m x exam6.m x exam7.m x

```
1 - commandwindow
2 - clear
3 - clc
4 - syms n(t)
5 - chinny= diff(n,t,2) - diff(n,t) - 12*n== 144*t^3 + 12.5
6 - dchinny= diff(n,t)
7 - shalom=[n(0)==5, dchinny(0)==-0.5]
8 - chinnye= dsolve(chinny,shalom)
9 - pretty(chinnye)
10 - tn=[0:0.1:1.5]
11 - chinnyyn= subs(chinnye,tn)
12 - plot(tn,chinnyyn)
13 - axis tight
14 - grid on
15 - grid minor
```

Editor - C:\Users\HP\exam8.m

+21 matlab23.m x exam1.m x exam2.m x exam3.m x exam4.m x exam5.m x exam6.m x exam7.m

```
1 - commandwindow
2 - clear
3 - clc
4 - syms y(t) x(t)
5 - ola=diff(y,t)-2*x==exp(-2*t)
6 - ola2=diff(x,t)+y==exp(-t)
7 - ola3=[ola,ola2]
8 - cond=[y(0)==0,x(0)==0]
9 - [yeq xeq]=dsolve(ola3,cond)
10 - figure(1)
11 - fplot (yeq)
12 - grid on
13 - grid minor
14 - figure(2)
15 - fplot (xeq)
16 - grid on
17 - grid minor
```

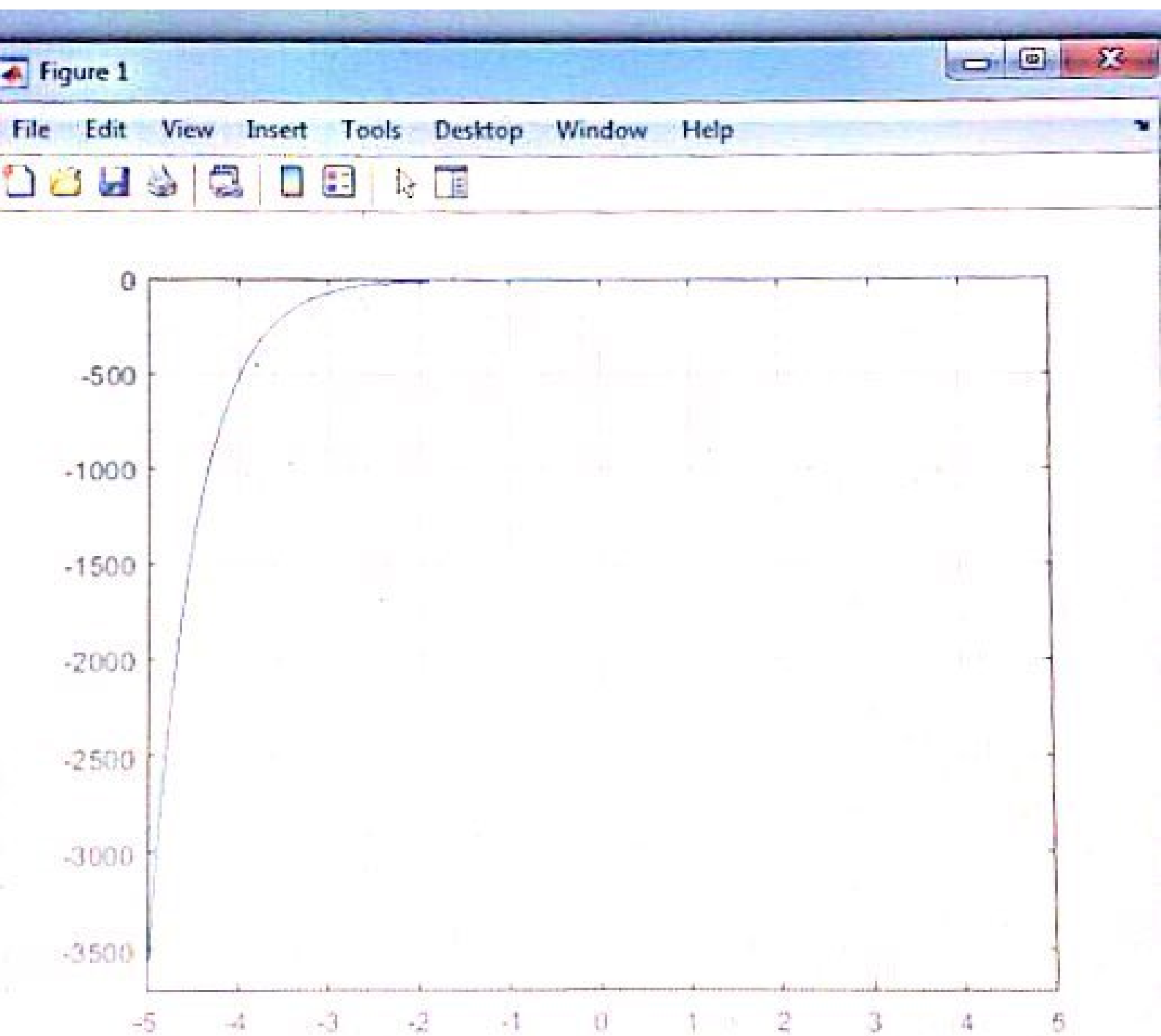
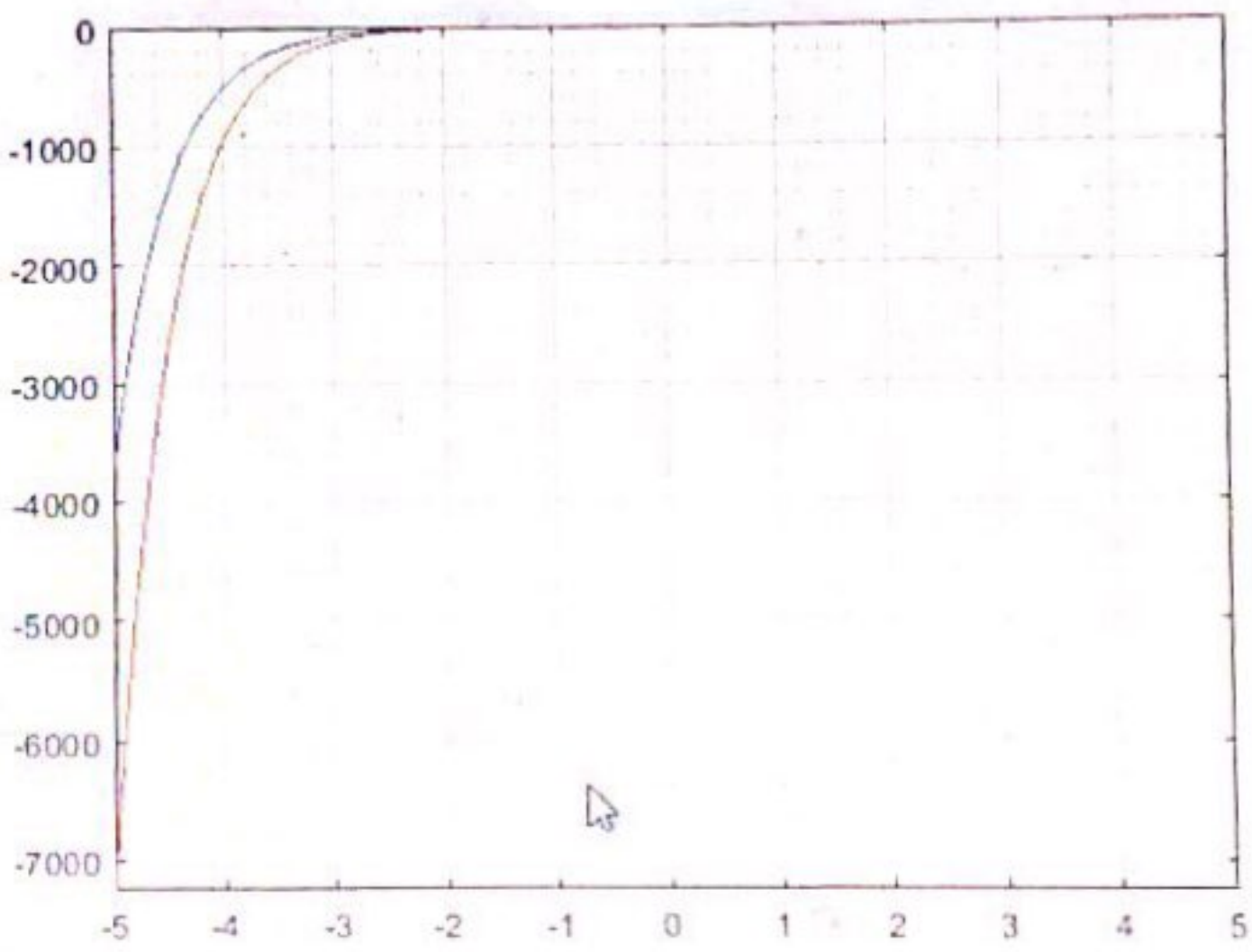
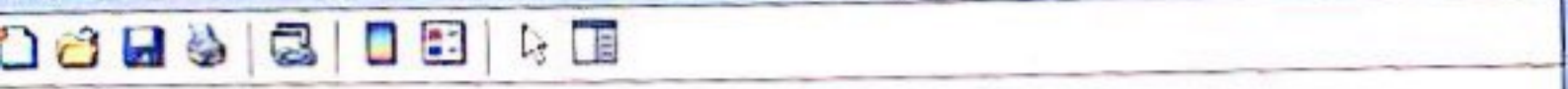
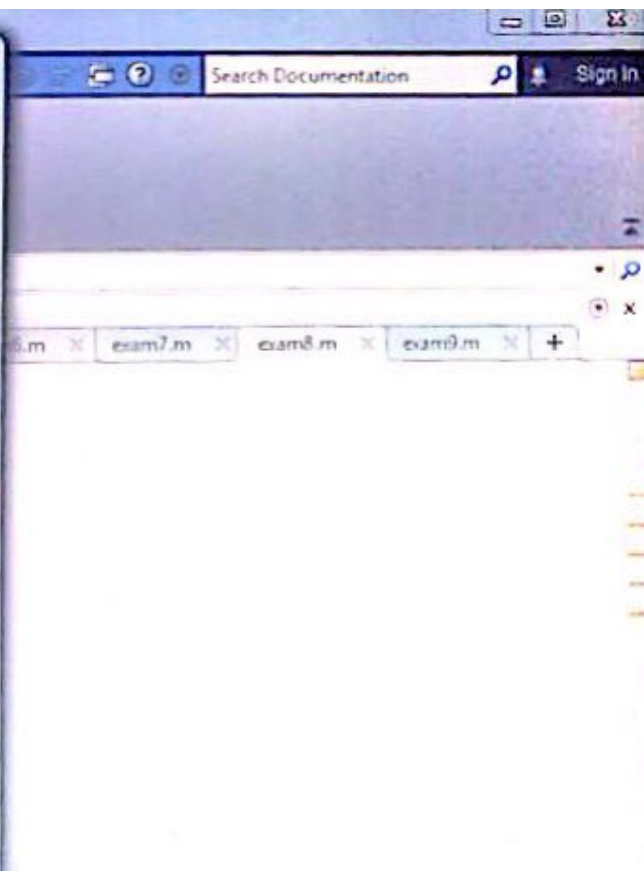
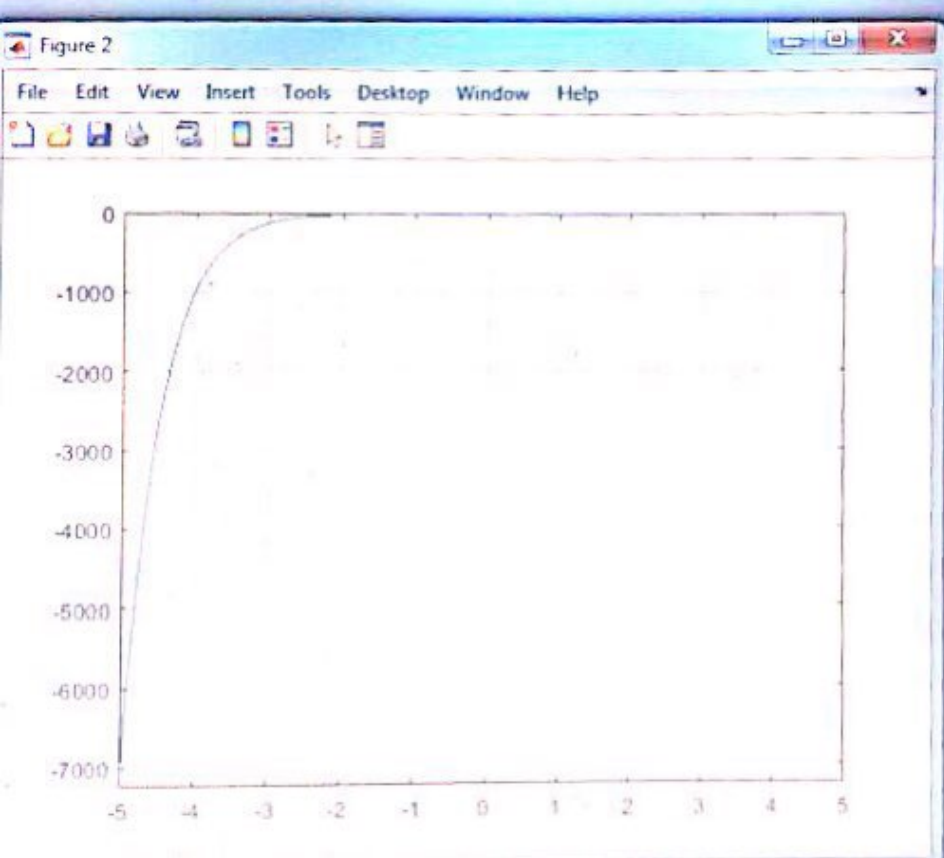


Figure 1

File Edit View Insert Tools Desktop Window Help

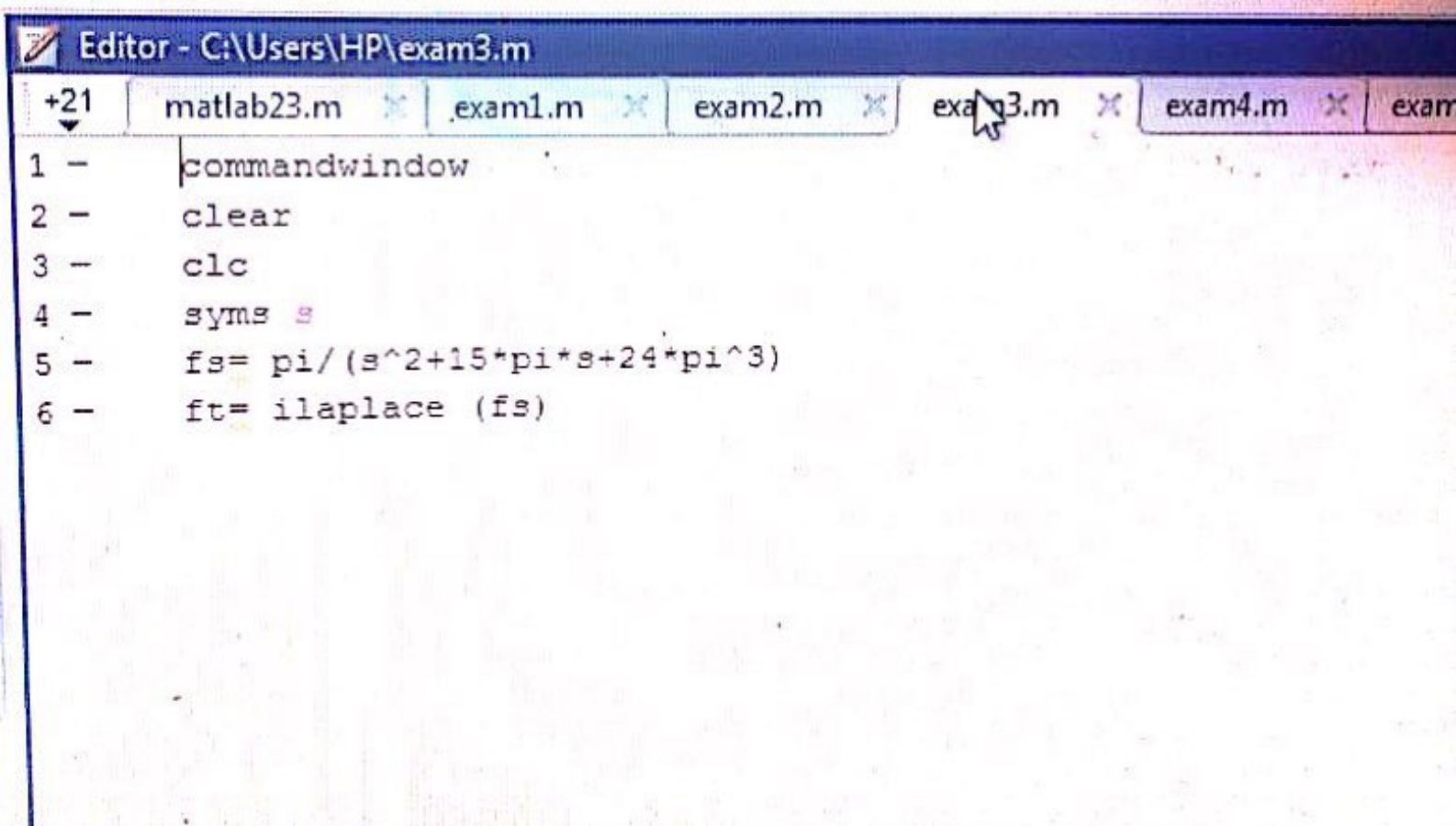




+21 matlab23.m x exam1.m x exam2.m x exam3.m x exam4.m x exam5.m x exam6.m x e

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

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The image shows a MATLAB Editor window titled "Editor - C:\Users\HP\exam3.m". The window contains a script with the following code:

```
1 - commandwindow  
2 - clear  
3 - clc  
4 - syms s  
5 - fs= pi/(s^2+15*pi*s+24*pi^3)  
6 - ft= ilaplace (fs)
```