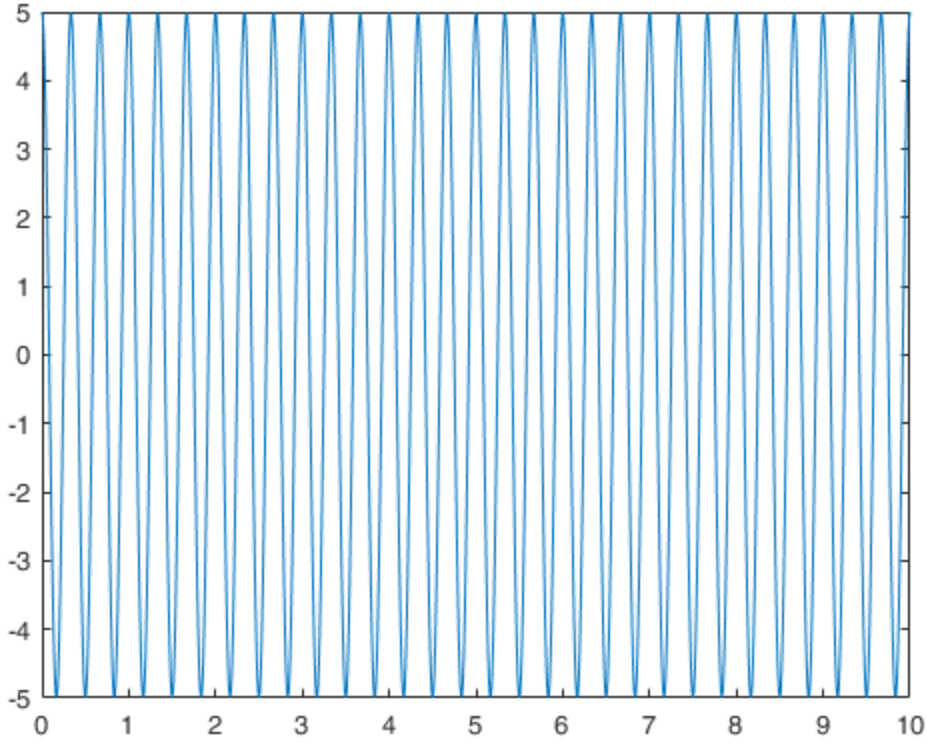
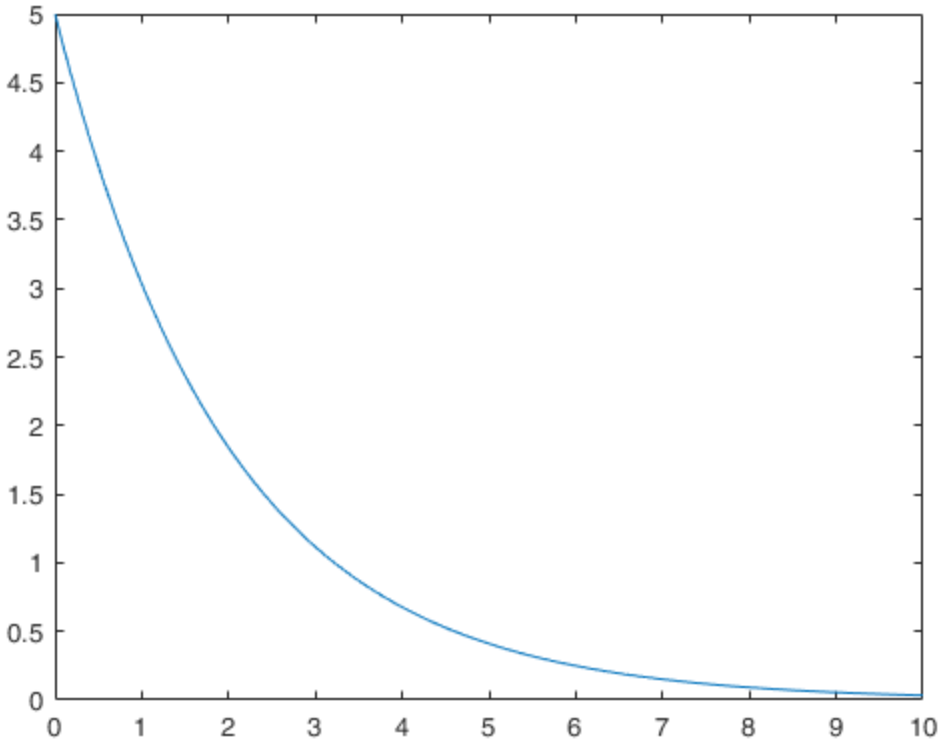
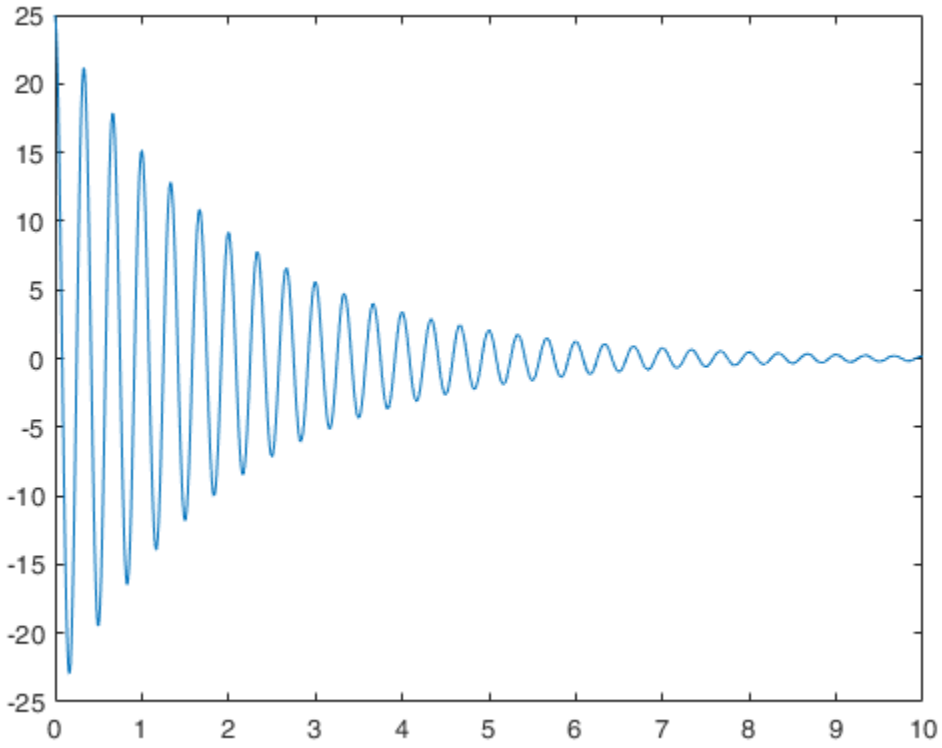
```
A=[2,1;3,2]
B=[3,1;2,2]
A'
B'
A1=A*B, A2=B*A, A3=(A'*B')', A4=(B'*A')'

A1=inv(A*B), A2=inv(A)*inv(B), A3=inv(B*A), A4=inv(B)*inv(A)
A1*(A*B),(A*B)*A1

C=[1,0,1;3,3,4;2,2,3;]
S=[10;12;5]
V=[19;-3;-9]
inv(C)*S
C*V

D=[2,4;1,2]
inv(D)

t=[0:0.01:10];
p=5*cos(2*pi*3*t);
v=5*exp(-0.5*t);
figure(1)
plot(t,p)
figure(2)
plot(t,v)
b=p.*v;
figure(3)
plot(t,b)


A =

     2     1
     3     2


B =

     3     1
     2     2


ans =

     2     3
     1     2


ans =

     3     2
     1     2
```

```
A1 =

     8     4
    13     7


A2 =

     9     5
    10     6


A3 =

     9     5
    10     6


A4 =

     8     4
    13     7


A1 =

    1.7500   -1.0000
   -3.2500    2.0000


A2 =

    1.5000   -1.2500
   -2.5000    2.2500


A3 =

    1.5000   -1.2500
   -2.5000    2.2500


A4 =

    1.7500   -1.0000
   -3.2500    2.0000


ans =

     1     0
     0     1
```

```
ans =

    1.0000   -0.0000
    0.0000    1.0000


C =

     1     0     1
     3     3     4
     2     2     3


S =

    10
    12
     5


V =

    19
    -3
    -9


ans =

   19.0000
   -3.0000
   -9.0000


ans =

    10
    12
     5


D =

     2     4
     1     2

Warning: Matrix is singular to working precision.

ans =

   Inf   Inf
   Inf   Inf
```


5
4
3
2
1
0
-1
-2
-3
-4
-5
0
1
2
3
4
5
6
7
8
9
10


5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0 1 2 3 4 5 6 7 8 9 10


25
20
15
10
5
0
-5
-10
-15
-20
-25
0 1 2 3 4 5 6 7 8 9 10

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