

```
>> A=[4 2*pi; 6*j 10+sqrt(2)*j]
```

```
A =
```

```
4.0000 + 0.0000i    6.2832 + 0.0000i  
0.0000 + 6.0000i   10.0000 + 1.4142i
```

```
>> B=[6*j -13*pi; pi 16]
```

```
B =
```

```
0.0000 + 6.0000i -40.8407 + 0.0000i  
3.1416 + 0.0000i  16.0000 + 0.0000i
```

```
>> a= A+B
```

```
a =
```

```
4.0000 + 6.0000i -34.5575 + 0.0000i  
3.1416 + 6.0000i  26.0000 + 1.4142i
```

```
>> b= A*B
```

```
b =
```

```
1.0e+02 *  
  
0.1974 + 0.2400i  -0.6283 + 0.0000i  
-0.0458 + 0.0444i  1.6000 - 2.2242i
```

```
>> c= A^2
```

```
c =
```

```
16.0000 +37.6991i  87.9646 + 8.8858i  
-8.4853 +84.0000i  98.0000 +65.9834i
```

```
>> d= A'
```

```
d =
```

```
4.0000 + 0.0000i    0.0000 - 6.0000i  
6.2832 + 0.0000i   10.0000 - 1.4142i
```

```
>> e= inv(B)
```

```
e =
```

```
0.0799 - 0.0598i    0.2041 - 0.1527i  
-0.0157 + 0.0117i    0.0224 + 0.0300i
```

```
>> f= B'A'
```

```
f= B'A'
```

```
↑
```

```
Error: Unexpected MATLAB expression.
```

```
>> f= B'*A'
```

```
f =
```

```
1.0e+02 *
```

```
0.1974 - 0.2400i -0.0458 - 0.0444i  
-0.6283 + 0.0000i 1.6000 + 2.2242i
```

```
>> g= A^2 + B^2 - A*B
```

```
g =
```

```
1.0e+02 *
```

```
-1.6804 + 0.1370i -5.0265 - 2.3616i  
0.4636 + 0.9841i 0.6570 + 2.8840i
```

```
>> A=[5 6 10;-3 0 14;0 -7 21]
```

```
A =
```

```
5 6 10  
-3 0 14  
0 -7 21
```

```
>> B=[4;10;0]
```

```
B =
```

```
4  
10  
0
```

```
>> linsolve(A,B)
```

```
ans =
```

```
-1.4545  
1.2078  
0.4026
```

```
>> A.2= ans
```

```
A.2= ans
```

↑

Error: Unexpected MATLAB expression.

>> A2= ans

A2 =

-1.4545

1.2078

0.4026

>> x=[0:0.1:10];

>> w=10;

>> y=(exp(-0.5*x)).*sin(w*x);

>> plot(x,y)















>> title(' exp(-0.5x)sin(10x) plotted ')

>> grid

>>

Name ▲

Value

 a	$[4.0000 + 6.0000i, -34.5575 + \dots]$
 A	$[5, 6, 10; -3, 0, 14; 0, -7, 21]$
 A2	$[-1.4545; 1.2078; 0.4026]$
 ans	$[-1.4545; 1.2078; 0.4026]$
 b	$[19.7392 + 24.0000i, -62.831\dots]$
 B	$[4; 10; 0]$
 c	$[16.0000 + 37.6991i, 87.9646 \dots]$
 d	$[4.0000 + 0.0000i, 0.0000 - 6\dots]$
 e	$[0.0799 - 0.0598i, 0.2041 - 0.1\dots]$
 f	$[19.7392 - 24.0000i, -4.5841 - \dots]$
 g	$[-1.6804e+02 + 1.3699e+01i\dots]$
 w	10
 x	<i>1x101 double</i>
 y	<i>1x101 double</i>

