

< M A T L A B >
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To get started, select MATLAB Help or Demos from the Help menu.

>> Sept10

a26 =

1	1	-1	-1	4
2	1	1	0	3
-1	3	1	5	4

b26 =

5
-1
3

x1 =

-2
1
-1
-1
1

xs =

1
-1
-1
1
0

xt =

-1
-2
1

0
1

x2 =

1
4
-4
0
-1

x3 =

2
-1
0
1
3

a27 =

5	1	3	2	4	-1
-2	5	1	-3	-1	0
-1	-2	5	1	3	-2
0	3	-3	2	-4	-1
3	4	0	-1	5	0
-4	-1	6	2	-3	2

b27 =

0
1
6
-9
2
1

>> a26

a26 =

1	1	-1	-1	4
2	1	1	0	3
-1	3	1	5	4

```
>> b26
```

```
b26 =
```

```
  5  
 -1  
  3
```

```
>> X1
```

```
X1 =
```

```
 -2  
  1  
 -1  
 -1  
  1
```

```
>> Xs
```

```
Xs =
```

```
  1  
 -1  
 -1  
  1  
  0
```

```
>> Xt
```

```
Xt =
```

```
 -1  
 -2  
  1  
  0  
  1
```

```
>> a26*X1
```

```
ans =
```

```
  5  
 -1  
  3
```

```
>> X=X1+5*Xs+7*Xt
```

X =

-4
-18
1
4
8

>> a26*X

ans =

5
-1
3

>> a26*Xs

ans =

0
0
0

>> X2

X2 =

1
4
-4
0
-1

>> a26*X2

ans =

5
-1
3

>> X

X =

-4

```
-18  
1  
4  
8
```

```
>> XX=[2 -1 0 1 3]'
```

```
XX =
```

```
2  
-1  
0  
1  
3
```

```
>> a26*XX
```

```
ans =
```

```
12  
12  
12
```

```
>> a27
```

```
a27 =
```

```
5    1    3    2    4   -1  
-2    5    1   -3   -1    0  
-1   -2    5    1    3   -2  
0    3   -3    2   -4   -1  
3    4    0   -1    5    0  
-4   -1    6    2   -3    2
```

```
>> b27
```

```
b27 =
```

```
0  
1  
6  
-9  
2  
1
```

```
>> x=a27\b27
```

```
x =
```

```
-0.5649
-0.5322
 0.5063
-0.9967
 0.9654
 0.0300
```

```
>> q=[2 1 -2 1 4 5; -3 3 -1 1 3 4]'
```

```
q =
```

```
 2   -3
 1    3
-2   -1
 1    1
 4    3
 5    4
```

```
>> a28=[a27 q]
```

```
a28 =
```

```
 5    1    3    2    4   -1    2   -3
-2    5    1   -3   -1    0    1    3
-1   -2    5    1    3   -2   -2   -1
 0    3   -3    2   -4   -1    1    1
 3    4    0   -1    5    0    4    3
-4   -1    6    2   -3    2    5    4
```

```
>> a28\[0 0 0 0 0 0]'
```

```
ans =
```

```
0
0
0
0
0
0
0
0
0
```

```
>> b28a=-a28(:,7)
```

```
b28a =
```

```
-2
```

```
-1
 2
-1
-4
-5
```

```
>> a27\b28a
```

```
ans =
```

```
 0.3521
-0.8815
-0.0265
-1.1975
-0.5456
-1.7779
```

```
>> a28*ans
```

```
??? Error using ==> mtimes
Inner matrix dimensions must agree.
```

```
>> a27\b28a
```

```
ans =
```

```
 0.3521
-0.8815
-0.0265
-1.1975
-0.5456
-1.7779
```

```
>> XX1=[ans;1;0]
```

```
XX1 =
```

```
 0.3521
-0.8815
-0.0265
-1.1975
-0.5456
-1.7779
 1.0000
 0
```

```
>> a28*XX1
```

```
ans =
```

```
1.0e-15 *
```

```
0.2220  
-0.8882  
0.4441  
0.2220  
-0.8882  
0.8882
```

```
>> b28b=-a28(:,8)
```

```
b28b =
```

```
3  
-3  
1  
-1  
-3  
-4
```

```
>> a27\b28b
```

```
ans =
```

```
1.4590  
-0.9061  
0.4225  
-1.0235  
-0.9552  
-1.2118
```

```
>> XX2=[ans;0;1]
```

```
XX2 =
```

```
1.4590  
-0.9061  
0.4225  
-1.0235  
-0.9552  
-1.2118  
0  
1.0000
```

```
>> a28*XX2
```

```
ans =
```



```
1.0e-15 *
```

```
0.4441  
0  
-0.6661  
0.4441  
-0.8882  
0
```

```
>> XXX=[x;0;0]
```

```
XXX =
```

```
-0.5649  
-0.5322  
0.5063  
-0.9967  
0.9654  
0.0300  
0  
0
```

```
>> a28*XXX
```

```
ans =
```

```
-0.0000  
1.0000  
6.0000  
-9.0000  
2.0000  
1.0000
```

```
>>
```