

---

# Row operations example

format short

```
A=[2,3,1,0,-11; 2,7,0,-3,-21; -2,9,-3,-10,-13;0,8,-3,-6,-23]
```

A =

2	3	1	0	-11
2	7	0	-3	-21
-2	9	-3	-10	-13
0	8	-3	-6	-23

```
A1=[A(1,:); A(2,:)-A(1,:);A(3,:)+A(1,:);A(4,:)]
```

A1 =

2	3	1	0	-11
0	4	-1	-3	-10
0	12	-2	-10	-24
0	8	-3	-6	-23

```
A2=[A1(1,:); A1(3,:);A1(2,:);A1(4,:)]
```

A2 =

2	3	1	0	-11
0	12	-2	-10	-24
0	4	-1	-3	-10
0	8	-3	-6	-23

```
A3=[A2(1,:); A2(2,:);A2(3,:)-A2(2,:)/3;A2(4,:)-2*A2(2,:)/3]
```

A3 =

2.0000	3.0000	1.0000	0	-11.0000
0	12.0000	-2.0000	-10.0000	-24.0000
0	0	-0.3333	0.3333	-2.0000
0	0	-1.6667	0.6667	-7.0000

```
A4=[A3(1,:); A3(2,:);A3(4,:);A3(3,:)]
```

A4 =

2.0000	3.0000	1.0000	0	-11.0000
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# Row operations example

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```
0    12.0000    -2.0000   -10.0000   -24.0000
0         0    -1.6667    0.6667    -7.0000
0         0    -0.3333    0.3333    -2.0000
```

```
A5=[A4(1,:); A4(2,:);A4(3,:);A4(4,:)-A4(3,:)/5]
```

A5 =

```
2.0000    3.0000    1.0000         0   -11.0000
0    12.0000   -2.0000   -10.0000   -24.0000
0         0   -1.6667    0.6667    -7.0000
0         0         0    0.2000   -0.6000
```

```
U=A5(:,1:4)
```

U =

```
2.0000    3.0000    1.0000         0
0    12.0000   -2.0000   -10.0000
0         0   -1.6667    0.6667
0         0         0    0.2000
```

```
g=A5(:,5)
```

g =

```
-11.0000
-24.0000
-7.0000
-0.6000
```

U\g

ans =

```
-1.0000
-4.0000
3.0000
-3.0000
```

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