

---

```

A=[1 0 2; 2 1 2; 0 2 1];
B=[1 0 1; 1 1 2; 3 3 1]
C1=A+B
C2=A*B
C3=2*C2

A1=[0 1 1; 2 3 1; 1 2 1]
B1=[1 2 2; 1 0 1]
%C2b=A1*B1 (this makes an error
B1=B1'
C2b=A1*B1

A2=[1 2 1; 0 2 0; 2 1 1]
B2=[1 2 3; 4 5 6; 7 8 9]
C4=inv(A2)
D=inv(B2)

detA2=det(A2)
detB2=det(B2)

A3=[1 2 1; 0 1 2]
B3=[1 2 0; 1 1 2]
C=inv(A3*B3')

```

$B =$

1	0	1
1	1	2
3	3	1

$C1 =$

2	0	3
3	2	4
3	5	2

$C2 =$

7	6	3
9	7	6
5	5	5

$C3 =$

14	12	6
18	14	12
10	10	10

---

A1 =

0	1	1
2	3	1
1	2	1

B1 =

1	2	2
1	0	1

B1 =

1	1
2	0
2	1

C2b =

4	1
10	3
7	2

A2 =

1	2	1
0	2	0
2	1	1

B2 =

1	2	3
4	5	6
7	8	9

C4 =

-1.0000	0.5000	1.0000
0	0.5000	0
2.0000	-1.5000	-1.0000

*Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.*

RCOND = 1.541976e-18.

D =

---

$1.0\text{e}+16 *$

$-0.4504 \quad 0.9007 \quad -0.4504$   
 $0.9007 \quad -1.8014 \quad 0.9007$   
 $-0.4504 \quad 0.9007 \quad -0.4504$

$\det A2 =$

$-2$

$\det B2 =$

$6.6613\text{e}-16$

$A3 =$

$1 \quad 2 \quad 1$   
 $0 \quad 1 \quad 2$

$B3 =$

$1 \quad 2 \quad 0$   
 $1 \quad 1 \quad 2$

$C =$

$0.3333 \quad -0.3333$   
 $-0.1333 \quad 0.3333$

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