

16/ENG06/029

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Mechanical engineering

```
commandwindow
clc
clear
A = [2,3,7,9,4;3,7,9,12,5;4,8,5,6,9;5,9,2,4,5;6,2,3,7,8]
Afutu = det (A)
Afutu = transpose (A)
R = inv (A)
B = [0,10,4,-2;-3,-17,1,2;1,1,1,0;8,-34,16,-10]
Q = [4;2;6;4]
P = inv (B)*Q
```

A =

2	3	7	9	4
3	7	9	12	5
4	8	5	6	9
5	9	2	4	5
6	2	3	7	8

Afutu =

-765.0000

Afutu =

2	3	4	5	6
3	7	8	9	2
7	9	5	2	3
9	12	6	4	7
4	5	9	5	8

R =

1.8915	-1.4026	-0.3124	0.7843	-0.2078
-0.4379	0.3268	0.0523	-0.0392	-0.0196
2.5725	-1.8392	-0.0863	0.7647	-0.5176
-1.8876	1.4654	0.0105	-0.6078	0.3961
-0.6222	0.3778	0.2444	-0.3333	0.1333

B =

0	10	4	-2
-3	-17	1	2
1	1	1	0

8 -34 16 -10

Q =

4
2
6
4

P =

2.5714
0.2857
3.1429
5.7143