

```
>> L2
```

```
Choose a matrix from P,Q,R,S: P
```

```
M =
```

```
    3    2  
    4    1
```

```
e1 =
```

```
    5
```

```
e2 =
```

```
   -1
```

```
check_e1 =
```

```
    0
```

```
check_e2 =
```

```
    0
```

```
x1 =
```

```
   -2  
   -2
```

```
x2 =
```

```
   -2  
    4
```

```
n1 =
```

```
 0.7071  
 0.7071
```

n2 =

0.4472
-0.8944

check_n1 =

0
0

check_n2 =

1.0e-16 *

0.5551
0

>> L2

Choose a matrix from P,Q,R,S: Q

M =

3 -1
-2 4

e1 =

5

e2 =

2

check_e1 =

0

check_e2 =

0

x1 =

1
-2

x2 =

1
1

n1 =

0.4472
-0.8944

n2 =

0.7071
0.7071

check_n1 =

0
0

check_n2 =

0
0

>> L2

Choose a matrix from P,Q,R,S: R

M =

1 -2
-4 8

e1 =

9

e2 =

0

check_e1 =

0

check_e2 =

0

x1 =

2

-8

x2 =

2

1

n1 =

0.2425

-0.9701

n2 =

0.8944

0.4472

check_n1 =

0
0

check_n2 =

0
0

>> L2

Choose a matrix from P,Q,R,S: S

M =

2 3
-3 8

e1 =

5.0000

e2 =

5.0000

check_e1 =

4.4409e-16

check_e2 =

4.4409e-16

x1 =

-3.0000
-3.0000

x2 =

```
-3.0000  
-3.0000
```

```
n1 =
```

```
0.7071  
0.7071
```

```
n2 =
```

```
0.7071  
0.7071
```

```
check_n1 =
```

```
1.0e-14 *  
  
0  
-0.1332
```

```
check_n2 =
```

```
1.0e-15 *  
  
0.4441  
-0.4441
```

```
>>
```