

```
>> testscript
```

```
Data:
```

```
A=
```

```
Columns 1 through 9
```

-0.6946	0	0	0	0	0	0	0	0
0	-0.4619	0	0	0	0	0	0	0
0	0	0.8836	0	0	0	0	0	0
0	0	0	0.4359	0	0	0	0	0
0	0	0	0	0.8967	0	0	0	0
0	0	0	0	0	0.5047	0	0	0
0	0	0	0	0	0	-0.4009	0	0
0	0	0	0	0	0	0	-0.5138	0
0	0	0	0	0	0	0	0	0.7964
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0.7665
0	0	0	0	0	0	0	1.7447	0
0	0	0	0	0	0	-1.1605	0	0
0	0	0	0	0	2.3774	0	0	0
0	0	0	0	1.5261	0	0	0	0
0	0	0	0.1685	0	0	0	0	0
0	0	-0.3012	0	0	0	0	0	0
0	-0.6987	0	0	0	0	0	0	0
0.8328	0	0	0	0	0	0	0	0

```
Columns 10 through 18
```

0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0.3891
0	0	0	0	0	0	0	-1.1560	0
0	0	0	0	0	0	0.0397	0	0
0	0	0	0	0	-0.4506	0	0	0
0	0	0	0	0.1092	0	0	0	0
0	0	0	-0.2506	0	0	0	0	0
0	0	-0.1899	0	0	0	0	0	0
0	-1.0329	0	0	0	0	0	0	0
-0.9945	0	0	0	0	0	0	0	0
0	1.1867	0	0	0	0	0	0	0
0	0	0.7907	0	0	0	0	0	0
0	0	0	0.2877	0	0	0	0	0
0	0	0	0	0.0032	0	0	0	0
0	0	0	0	0	0.3656	0	0	0
0	0	0	0	0	0	3.5267	0	0
0	0	0	0	0	0	0	-0.1124	0
0	0	0	0	0	0	0	0	-1.5566
0	0	0	0	0	0	0	0	0

```
Column 19
```

```
0.8540
0
0
0
0
0
0
0
0
0
```

0  
0  
0  
0  
0  
0  
0  
0  
0

1.9151

b =

0.1594  
-0.0727  
-0.2724  
0.4757  
0.4461  
0.6140  
-0.6514  
-0.7037  
-0.2365  
-0.9945  
1.9532  
2.5354  
-0.8728  
2.3806  
1.8917  
3.6952  
-0.4136  
-2.2552  
2.7479

Result for

GENP	GEPP
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000

Error in Xnp= 8.0705e-16

Error in Xpp= 1.1672e-16

Epsilon\*||A||\*||A^1||= 2.0829e-14

\*\*\*\*\*  
Question 2.c)

0.8540  
0  
0  
0  
0  
0  
0  
0  
0  
0

```

0
0
0
0
0
0
0
1.9151

```

b =

```

0.8540
-0.0727
-0.2724
0.4757
0.4461
0.6140
-0.6514
-0.7037
-0.2365
-0.9945
1.9532
2.5354
-0.8728
2.3806
1.8917
3.6952
-0.4136
-2.2552
2.7479

```

Result for

GENP	GEPP
0.9992	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000

Xnp error: 0.00018337

Xpp error: 1.0502e-16

Epsilon\*||A||\*||A^1||= 2.0829e-14

\*\*\*\*\*

Question 2.d)

Data:

A=

0.8540  
0  
0  
0  
0  
0  
0  
0  
0  
0  
0  
0

```
0
0
0
0
0
1.9151
```

```
b =
```

```
0.8540
-0.0727
-0.2724
0.4757
0.4461
0.6140
-0.6514
-0.7037
-0.2365
-0.9945
1.9532
2.5354
-0.8728
2.3806
1.8917
3.6952
-0.4136
-2.2552
1.9151
```

```
Result for
```

GENP	GEPP
0.9992	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000
1.0000	1.0000

```
Xnp error: 0.00018337
```

```
Xpp error: 1.3395e-10
```

```
Epsilon*||A||*||A^1||= 1.9252e-08
```

```
>>
```