## >> testscript

Data:

A=

Columns 1 through 9

-0.6946	۵	۵	a	۵	a	۵	۵	a
0.0340	-0.4619	0	0	0	0	0	0	9
0		U	0	0	0	V	0	V
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
ρ	a	a	a	a	ρ	a	a	ρ

Column 19

```
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
Error in Xnp= 8.0705e-16
Error in Xpp= 1.1672e-16
Epsilon*||A||*||A^1||= 2.0829e-14
************************
Question 2.c)
```

0 0000	•	•	•	•	•	•	•	
0.0000	0	0	0	0	0	0	0	0
0	-0.4619	0	0	0	0	0	0	0
0	0	0.8836	0 4350	0	0	0	0	0
0	0	0	0.4359	0	0	0	0	0
0 0	0 0	0 0	0 0	0.8967 0	0 0 <b>.</b> 5047	0	0 0	0
0	0	0	0	0	0.3047	-0.4009	0	0
0	0	0	0	0	0	-0.4009 0	-0.5138	0
0	0	0	ő	0	0	0	0.5150	0.7964
0	ő	ő	ő	ő	0	ő	ő	01/304
ő	Ő	ő	0	ő	Ő	ő	ő	0.7665
0	Ő	Ő	Ő	Ő	Ő	Ő	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	^	α	•	^	_	_	α
	0 0 through 1	0 18	0	0	0	0	0	0
olumns 10	O through 1	18	0	0	0	0	0	0
olumns 10	through :	18 0 0		0	0	0	0	0 0.3891
olumns 10 0 0	through 1	0 0 0	Ø Ø	0	0	0 0 0	0	0 0.3891 0
olumns 10 0 0 0	0 through 1	18 0 0	0 0 0	0 0 0	0 0 0 0	0	0 0 -1.1560	0 0.3891
olumns 10 0 0 0 0	0 through 1 0 0 0 0 0	18 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0.0397	0 0 -1.1560 0	0 0.3891 0 0
olumns 10 0 0 0 0 0	0 through 3 0 0 0 0	18 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 -0.4506	0 0 0 0.0397 0	0 0 -1.1560 0 0	0 0.3891 0 0
olumns 10 0 0 0 0 0	0 through 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 -0.4506	0 0 0 0.0397 0 0	0 0 -1.1560 0 0	0.3891 0 0 0 0 0
olumns 10 0 0 0 0 0 0 0	0 through 3 0 0 0 0 0 0	18 0 0 0 0 0 0	0 0 0 0 0 0 -0.2506	0 0 0 0 0 0.1092	0 0 0 0 -0.4506 0	0 0 0 0.0397 0 0	0 0 -1.1560 0 0 0	0.3891 0 0 0 0 0
olumns 10 0 0 0 0 0 0 0	0 through 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 -0.2506	0 0 0 0 0.1092 0 0	0 0 0 0 -0.4506 0 0	0 0 0 0.0397 0 0 0	0 0 -1.1560 0 0 0	0.3891 0 0 0 0 0 0
olumns 10 0 0 0 0 0 0 0 0 0	0 through 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 -0.1899 0	0 0 0 0 0 0 -0.2506 0 0	0 0 0 0 0.1092 0 0 0	0 0 0 0 -0.4506 0 0 0	0 0 0.0397 0 0 0 0	0 0 -1.1560 0 0 0 0	0.3891 0 0 0 0 0 0
olumns 10 0 0 0 0 0 0 0 0 0	0 through 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 -0.1899 0 0 0.7907	0 0 0 0 0 -0.2506 0 0	0 0 0 0 0.1092 0 0 0	0 0 0 0 -0.4506 0 0 0	0 0 0.0397 0 0 0 0 0	0 0 0 -1.1560 0 0 0 0 0	0.3891 0 0 0 0 0 0 0
olumns 10 0 0 0 0 0 0 0 0 0 0	0 through 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 -0.1899 0 0 0.7907	0 0 0 0 0 0 -0.2506 0 0 0	0 0 0 0 0.1092 0 0 0	0 0 0 0 -0.4506 0 0 0 0	0 0 0 0.0397 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0.3891 0 0 0 0 0 0 0
olumns 10 0 0 0 0 0 0 0 0 0 0 0	0 through 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 -0.1899 0 0 0.7907	0 0 0 0 0 0 -0.2506 0 0 0 0.2877	0 0 0 0 0.1092 0 0 0 0	0 0 0 0 -0.4506 0 0 0 0	0 0 0 0.0397 0 0 0 0 0	0 0 0 -1.1560 0 0 0 0 0	0.3891 0 0 0 0 0 0 0 0
olumns 10 0 0 0 0 0 0 0 0 0 -0.9945 0 0	0 through 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 -0.1899 0 0 0.7907 0	0 0 0 0 0 0 -0.2506 0 0 0 0.2877 0	0 0 0 0 0.1092 0 0 0 0 0	0 0 0 0 -0.4506 0 0 0 0 0 0	0 0 0 0.0397 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
olumns 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 through 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 -0.1899 0 0 0.7907 0 0	0 0 0 0 0 0 -0.2506 0 0 0 0.2877 0 0	0 0 0 0 0.1092 0 0 0 0 0 0.0032 0	0 0 0 0 -0.4506 0 0 0 0 0 0 0.3656	0 0 0.0397 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0.3891 00.00 00 00 00 00 00 00 00 00
olumns 10 0 0 0 0 0 0 0 0 0 -0.9945 0 0 0	0 through 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 0 0 0 0 0 0 -0.1899 0 0 0.7907 0 0	0 0 0 0 0 0 -0.2506 0 0 0 0.2877 0 0	0 0 0 0 0.1092 0 0 0 0 0.0032 0 0	0 0 0 0 -0.4506 0 0 0 0 0 0 0 0 0	0 0 0.0397 0 0 0 0 0 0 0 0 0 0 0 3.5267	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.3891 00 00 00 00 00 00 00 00 00 00
olumns 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 through 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 -0.1899 0 0 0.7907 0 0	0 0 0 0 0 0 -0.2506 0 0 0 0.2877 0 0	0 0 0 0 0.1092 0 0 0 0 0 0.0032 0	0 0 0 0 -0.4506 0 0 0 0 0 0 0.3656	0 0 0.0397 0 0 0 0 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 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
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              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=
```

Columns 1	through 9	)						
0.0000	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
0.0000	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
         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
Xnp error: 0.00018337
Xpp error: 1.3395e-10
Epsilon*||A||*||A^1||= 1.9252e-08
>>
```