For Q1-Q4 x increases from T-B and y increases from L-R in matrix of approximated value, error, and original value

Q1: tol=.00001 h=0.25 for both x and y approximated value =

```
0 0.0625 0.2500 0.5625 1.0000 1.5625 2.2500 3.0625 4.0000
0.0625  0.0000  0.0625  0.2500  0.5625
                                      1.0000 1.5625
                                                      2.2500
                                                              3.0625
0.2500 0.0625
               0.0000 0.0625 0.2500 0.5625
                                              1.0000 1.5625
                                                              2.2500
0.5625 0.2500
               0.0625
                       0.0000 0.0625 0.2500 0.5625 1.0000 1.5625
1.0000 0.5625
               0.2500
                       0.0625
                                 0\quad 0.0625\quad 0.2500\quad 0.5625\quad 1.0000
```

nodesX =

0 0.2500 0.5000 0.7500 1.0000

nodesY =

0 0.2500 0.5000 0.7500 1.0000 1.2500 1.5000 1.7500 2.0000

error =

1.0e-04 *

0	0	0	0 0	0	0 0	0		
0	0.1009	0.1844	0.2434	0.2604	0.2431	0.1839	0.1006	0
0	0.1411	0.2636	0.3404	0.3723	0.3400	0.2630	0.1407	0
0	0.1009	0.1844	0.2434	0.2604	0.2431	0.1839	0.1006	0
0	0	0	0 0	0	0 0	0		

original value =

```
0 0.0625 0.2500 0.5625
                            1.0000 1.5625 2.2500
                                                  3.0625
                                                          4.0000
0.0625
          0 0.0625
                    0.2500 0.5625
                                   1.0000 1.5625
                                                   2.2500
                                                          3.0625
0.2500
       0.0625
                 0 0.0625
                            0.2500
                                   0.5625
                                           1.0000
                                                  1.5625
                                                          2.2500
       0.2500 0.0625
0.5625
                         0 0.0625
                                   0.2500
                                           0.5625
                                                   1.0000
                                                          1.5625
      0.5625 0.2500 0.0625
                                0 0.0625
1.0000
                                           0.2500
                                                   0.5625
                                                          1.0000
```

global error =

3.7231e-05

```
Q2:
h=0.25
tol=0.00001
approximatevalue =
```

 0
 0.0606
 0.2231
 0.4463
 0.6931

 0.4463
 0.4848
 0.5944
 0.7539
 0.9410

 0.8109
 0.8377
 0.9159
 1.0341
 1.1787

 1.1192
 1.1390
 1.1974
 1.2878
 1.4018

 1.3863
 1.4018
 1.4469
 1.5179
 1.6094

nodesX =

1.0000 1.2500 1.5000 1.7500 2.0000

nodesY =

0 0.2500 0.5000 0.7500 1.0000

Error =

1.0e-03 *

0	0	0 (0 0	
0	0.7534	0.2673	0.1776	0
0	0.6733	0.3893	0.0033	0
0	0.4071	0.2906	0.0620	0
0	0	0 (0 0	

originalvalue =

 0
 0.0606
 0.2231
 0.4463
 0.6931

 0.4463
 0.4855
 0.5947
 0.7538
 0.9410

 0.8109
 0.8383
 0.9163
 1.0341
 1.1787

 1.1192
 1.1394
 1.1977
 1.2879
 1.4018

 1.3863
 1.4018
 1.4469
 1.5179
 1.6094

globalerror =

7.5343e-04

```
Q3:
h=0.25
tol=0.00001
```

approximatevalue =

```
      0
      0
      0
      0

      0
      0.0625
      0.1250
      0.1875
      0.2500

      0
      0.1250
      0.2500
      0.3750
      0.5000

      0
      0.1875
      0.3750
      0.5625
      0.7500

      0
      0.2500
      0.5000
      0.7500
      1.0000
```

nodesX =

 $0\quad 0.2500\quad 0.5000\quad 0.7500\quad 1.0000$

nodesY =

 $0\quad 0.2500\quad 0.5000\quad 0.7500\quad 1.0000$

Error =

1.0e-04 *

0	0	0 (0 0	
0	0.0858	0.1144	0.0858	0
0	0.1144	0.1717	0.1144	0
0	0.0858	0.1144	0.0858	0
0	0	0 (0	

originalvalue =

0	0	0 (0 0	
0	0.0625	0.1250	0.1875	0.2500
0	0.1250	0.2500	0.3750	0.5000
0	0.1875	0.3750	0.5625	0.7500
0	0.2500	0.5000	0.7500	1.0000

globalerror =

1.7166e-05

```
Q4:
h=0.25
tol=0.00001
```

approximatevalue =

```
      0
      0.2789
      0.6082
      0.9793
      1.3863

      0.2789
      0.6988
      1.1811
      1.7154
      2.2907

      0.6082
      1.1811
      1.8271
      2.5355
      3.2958

      0.9793
      1.7154
      2.5355
      3.4289
      4.3847

      1.3863
      2.2907
      3.2958
      4.3847
      5.5452
```

nodesX =

1.0000 1.2500 1.5000 1.7500 2.0000

nodesY =

1.0000 1.2500 1.5000 1.7500 2.0000

Error =

0	0	0 (0 0	
0	0.0014	0.0025	0.0031	0
0	0.0025	0.0025	0.0022	0.0000
0	0.0031	0.0022	0.0012	0
Λ	Ω	0 () ()	

originalvalue =

```
    0
    0.2789
    0.6082
    0.9793
    1.3863

    0.2789
    0.6973
    1.1786
    1.7123
    2.2907

    0.6082
    1.1786
    1.8246
    2.5333
    3.2958

    0.9793
    1.7123
    2.5333
    3.4276
    4.3847

    1.3863
    2.2907
    3.2958
    4.3847
    5.5452
```

globalerror =

0.0031

for Q5-Q8 t increases from T-B and x increases from L-R in matrix of approximated value, error, and original value

```
Q5:
hx=0.25
ht=0.03
upper limit of t=0.48
approximatevalue =
```

```
0.7071
          1.0000
                  0.7071
                          0.0000
0
  0.5083
          0.7188
                  0.5083
                            0
  0.3654
                             0
0
          0.5167
                  0.3654
  0.2626 0.3714
                  0.2626
0
                             0
0
  0.1888 0.2670
                  0.1888
                             0
0
  0.1357
          0.1919
                  0.1357
                             0
0
  0.0975
         0.1380
                  0.0975
                             0
  0.0701 0.0992
0
                  0.0701
                             0
  0.0504 0.0713
0
                  0.0504
                             0
  0.0362 0.0512
                  0.0362
                             0
0
                  0.0260
0
  0.0260 0.0368
                             0
0
  0.0187 0.0265
                  0.0187
                             0
  0.0135 0.0190
0
                  0.0135
                             0
0
  0.0097
         0.0137
                  0.0097
                             0
  0.0070 0.0098
0
                  0.0070
                             0
0
  0.0050
          0.0071
                  0.0050
                             0
0
  0.0036
          0.0051
                  0.0036
                             0
```

```
nodesX =
```

0 0.2500 0.5000 0.7500 1.0000

nodesY =

Columns 1 through 15

Columns 16 through 17

0.4500 0.4800

Error =

```
0
     0
           0
                0
0
  0.0176 0.0249 0.0176
                         0.0000
0
  0.0258 0.0364 0.0258
                         0.0000
0
  0.0282
          0.0399
                  0.0282
                         0.0000
0
  0.0275
          0.0390
                 0.0275
                         0.0000
```

```
0.0252  0.0356  0.0252  0.0000
0 0.0221 0.0313
                 0.0221 0.0000
                 0.0189 0.0000
0 0.0189
         0.0267
0 0.0158 0.0223
                 0.0158 0.0000
0 0.0130 0.0184
                 0.0130 0.0000
0 0.0106 0.0149
                 0.0106 0.0000
0.0085
         0.0120
                 0.0085 0.0000
0 0.0068 0.0096
                 0.0068 0.0000
0 0.0054 0.0076
                 0.0054
                        0.0000
0 0.0042 0.0060
                 0.0042 0.0000
0 0.0033
         0.0047
                 0.0033 0.0000
0 0.0026 0.0037
                 0.0026 0.0000
```

originalvalue =

0	0.7071	1.0000	0.7071	0.0000
0	0.5259	0.7437	0.5259	0.0000
0	0.3911	0.5531	0.3911	0.0000
0	0.2909	0.4114	0.2909	0.0000
0	0.2163	0.3059	0.2163	0.0000
0	0.1609	0.2275	0.1609	0.0000
0	0.1197	0.1692	0.1197	0.0000
0	0.0890	0.1259	0.0890	0.0000
0	0.0662	0.0936	0.0662	0.0000
0	0.0492	0.0696	0.0492	0.0000
0	0.0366	0.0518	0.0366	0.0000
0	0.0272	0.0385	0.0272	0.0000
0	0.0202	0.0286	0.0202	0.0000
0	0.0151	0.0213	0.0151	0.0000
0	0.0112	0.0158	0.0112	0.0000
0	0.0083	0.0118	0.0083	0.0000
0	0.0062	0.0088	0.0062	0.0000

globalerror =

0.0399

Q6: hx=0.25 ht=0.03 upper limit of t=0.48 approximatevalue =

0	0.3827	0.7071	0.9239	1.0000	0.9239	0.7071	0.3827	0.0000
0	0.3547	0.6554	0.8564	0.9269	0.8564	0.6554	0.3547	0
0	0.3288	0.6075	0.7938	0.8592	0.7938	0.6075	0.3288	0
0	0.3048	0.5631	0.7358	0.7964	0.7358	0.5631	0.3048	0
0	0.2825	0.5220	0.6820	0.7382	0.6820	0.5220	0.2825	0
0	0.2619	0.4838	0.6322	0.6843	0.6322	0.4838	0.2619	0
0	0.2427	0.4485	0.5860	0.6343	0.5860	0.4485	0.2427	0

```
0.2250 0.4157
                       0.5432
                               0.5879 0.5432 0.4157
                                                        0.2250
                                                                  0
       0.2085
               0.3853
                                                0.3853 0.2085
    0
                       0.5035
                                0.5449 0.5035
                                                                   0
       0.1933
                       0.4667
                                0.5051
    0
               0.3572
                                       0.4667
                                                0.3572
                                                        0.1933
                                                                   0
                                       0.4326
    0
       0.1792 0.3311
                       0.4326
                               0.4682
                                                0.3311
                                                        0.1792
                                                                  0
       0.1661 0.3069
                       0.4010 0.4340 0.4010
                                                0.3069
    0
                                                        0.1661
                                                                  0
       0.1539 0.2845
                       0.3717
                               0.4023 0.3717
                                                0.2845
                                                        0.1539
                                                                   0
    0
    0
       0.1427
               0.2637
                       0.3445
                                0.3729
                                       0.3445
                                                0.2637
                                                        0.1427
                                                                   0
    0
       0.1323 0.2444
                       0.3193
                               0.3456
                                       0.3193
                                                0.2444
                                                        0.1323
                                                                  0
               0.2265
                       0.2960
                                0.3204
                                                0.2265
    0
       0.1226
                                       0.2960
                                                        0.1226
                                                                   0
    0
       0.1136
               0.2100
                       0.2744
                                0.2970
                                       0.2744
                                                0.2100
                                                                  0
                                                        0.1136
nodesX =
    0\quad 0.2500\quad 0.5000\quad 0.7500\quad 1.0000\quad 1.2500\quad 1.5000\quad 1.7500\quad 2.0000
```

nodesY =

Columns 1 through 15

Columns 16 through 17

0.4500 0.4800

Error =

0	0	0 (0 0	0	0 0	0		
0	0.0007	0.0012	0.0016	0.0017	0.0016	0.0012	0.0007	0.0000
0	0.0012	0.0023	0.0030	0.0032	0.0030	0.0023	0.0012	0.0000
0	0.0017	0.0032	0.0041	0.0045	0.0041	0.0032	0.0017	0.0000
0	0.0021	0.0039	0.0051	0.0055	0.0051	0.0039	0.0021	0.0000
0	0.0024	0.0045	0.0059	0.0064	0.0059	0.0045	0.0024	0.0000
0	0.0027	0.0050	0.0066	0.0071	0.0066	0.0050	0.0027	0.0000
0	0.0030	0.0055	0.0071	0.0077	0.0071	0.0055	0.0030	0.0000
0	0.0031	0.0058	0.0076	0.0082	0.0076	0.0058	0.0031	0.0000
0	0.0033	0.0060	0.0079	0.0085	0.0079	0.0060	0.0033	0.0000
0	0.0034	0.0062	0.0081	0.0088	0.0081	0.0062	0.0034	0.0000
0	0.0034	0.0063	0.0083	0.0090	0.0083	0.0063	0.0034	0.0000
0	0.0035	0.0064	0.0084	0.0091	0.0084	0.0064	0.0035	0.0000
0	0.0035	0.0065	0.0084	0.0091	0.0084	0.0065	0.0035	0.0000
0	0.0035	0.0065	0.0084	0.0091	0.0084	0.0065	0.0035	0.0000
0	0.0035	0.0064	0.0084	0.0091	0.0084	0.0064	0.0035	0.0000
0	0.0034	0.0063	0.0083	0.0090	0.0083	0.0063	0.0034	0.0000

```
0
        0.3827
                 0.7071
                         0.9239
                                  1.0000
                                          0.9239
                                                  0.7071
                                                           0.3827
                                                                    0.0000
     0
        0.3554
                 0.6567
                         0.8580
                                  0.9287
                                          0.8580
                                                           0.3554
                                                                    0.0000
                                                   0.6567
     0
        0.3300
                 0.6098
                         0.7967
                                  0.8624
                                          0.7967
                                                   0.6098
                                                           0.3300
                                                                    0.0000
     0
        0.3065
                 0.5663
                         0.7399
                                  0.8009
                                          0.7399
                                                   0.5663
                                                           0.3065
                                                                    0.0000
     0
        0.2846
                0.5259
                         0.6871
                                  0.7437
                                          0.6871
                                                   0.5259
                                                           0.2846
                                                                    0.0000
        0.2643
                0.4884
                                                           0.2643
     0
                         0.6381
                                  0.6907
                                          0.6381
                                                   0.4884
                                                                    0.0000
     0
        0.2454
                0.4535
                         0.5926
                                  0.6414
                                          0.5926
                                                   0.4535
                                                           0.2454
                                                                    0.0000
     0
        0.2279
                0.4212
                         0.5503
                                  0.5956
                                          0.5503
                                                   0.4212
                                                           0.2279
                                                                    0.0000
        0.2117
                0.3911
     0
                         0.5110
                                 0.5531
                                          0.5110
                                                  0.3911
                                                           0.2117
                                                                   0.0000
        0.1966
     0
                0.3632
                         0.4746
                                  0.5137
                                          0.4746
                                                   0.3632
                                                           0.1966
                                                                    0.0000
        0.1825
                0.3373
                         0.4407
                                  0.4770
                                          0.4407
                                                   0.3373
                                                           0.1825
                                                                    0.0000
     0
     0
        0.1695
                0.3132
                         0.4093
                                 0.4430
                                          0.4093
                                                   0.3132
                                                           0.1695
                                                                    0.0000
        0.1574
                 0.2909
                         0.3801
                                  0.4114
                                          0.3801
                                                           0.1574
     0
                                                   0.2909
                                                                    0.0000
     0
        0.1462
                0.2701
                         0.3529
                                  0.3820
                                          0.3529
                                                   0.2701
                                                           0.1462
                                                                    0.0000
     0
        0.1358
                 0.2509
                         0.3278
                                  0.3548
                                          0.3278
                                                   0.2509
                                                           0.1358
                                                                    0.0000
     0
        0.1261
                0.2330
                         0.3044
                                  0.3295
                                          0.3044
                                                   0.2330
                                                           0.1261
                                                                    0.0000
     0
        0.1171
                0.2163
                         0.2827
                                 0.3059
                                          0.2827
                                                   0.2163
                                                           0.1171
                                                                    0.0000
globalerror =
  0.0091
hx=pi/6
ht=0.1
upper limit of t=1.0
approximatevalue =
        0.5000
                0.8660
                         1.0000
                                 0.8660
                                          0.5000
                                                   0.0000
     0
        0.4511
                0.7814
                         0.9023
                                 0.7814
                                          0.4511
                                                     0
        0.4070
     0
                0.7050
                         0.8141
                                  0.7050
                                          0.4070
                                                      0
        0.3673
                 0.6361
                         0.7345
                                  0.6361
     0
                                          0.3673
                                                      0
     0
        0.3314
                0.5739
                         0.6627
                                  0.5739
                                          0.3314
                                                      0
                         0.5980
        0.2990
                0.5178
                                  0.5178
     0
                                          0.2990
                                                      0
        0.2698
                0.4672
                                  0.4672
                                                      0
     0
                         0.5395
                                          0.2698
        0.2434
                 0.4216
                         0.4868
                                  0.4216
     0
                                          0.2434
                                                      0
        0.2196
                 0.3804
                                  0.3804
                                                      0
     0
                         0.4392
                                          0.2196
     0
        0.1981
                 0.3432
                         0.3963
                                  0.3432
                                          0.1981
                                                      0
                 0.3096
        0.1788
                         0.3575
                                  0.3096
                                          0.1788
                                                      0
nodesX =
       0.5236
                 1.0472
                         1.5708
                                 2.0944
                                          2.6180
nodesY =
       0.1000 0.2000 0.3000 0.4000 0.5000 0.6000 0.7000 0.8000
                                                                           0.9000
```

Q7:

0

0

0

0.8207

0.7671

0.7180

1.3108

1.2312

1.1582

```
Error =
     0
           0
                                     0
                 0
                        0
                              0
                                           0
                                  0.0022
     0
        0.0013
                 0.0022
                          0.0026
                                           0.0013
                                                    0.0000
        0.0023
                 0.0040
                          0.0047
                                  0.0040
                                           0.0023
                                                    0.0000
        0.0032
                          0.0063
                                  0.0055
                                           0.0032
     0
                 0.0055
                                                    0.0000
        0.0038
                 0.0066
                          0.0076
                                  0.0066
                                           0.0038
                                                    0.0000
        0.0043
                 0.0074
                          0.0086
                                  0.0074
                                           0.0043
                                                    0.0000
     0
                                           0.0046
        0.0046
     0
                 0.0081
                          0.0093
                                  0.0081
                                                    0.0000
        0.0049
                 0.0085
                          0.0098
                                  0.0085
                                           0.0049
     0
                                                    0.0000
                                  0.0088
     0
        0.0051
                 0.0088
                          0.0101
                                           0.0051
                                                    0.0000
     0
        0.0051
                 0.0089
                          0.0103
                                  0.0089
                                           0.0051
                                                    0.0000
     0
        0.0052
                 0.0089
                          0.0103
                                  0.0089
                                           0.0052
                                                    0.0000
originalvalue =
                                  0.8660
        0.5000
                 0.8660
                          1.0000
                                           0.5000
                                                    0.0000
        0.4524
                 0.7836
                          0.9048
                                  0.7836
                                           0.4524
                                                    0.0000
        0.4094
                 0.7090
                          0.8187
                                  0.7090
                                           0.4094
                                                    0.0000
        0.3704
                 0.6416
     0
                          0.7408
                                  0.6416
                                           0.3704
                                                    0.0000
                                  0.5805
     0
        0.3352
                 0.5805
                          0.6703
                                           0.3352
                                                    0.0000
     0
        0.3033
                 0.5253
                          0.6065
                                  0.5253
                                           0.3033
                                                    0.0000
        0.2744
                 0.4753
                                  0.4753
                                           0.2744
     0
                          0.5488
                                                    0.0000
     0
        0.2483
                 0.4301
                          0.4966
                                  0.4301
                                           0.2483
                                                    0.0000
     0
        0.2247
                 0.3891
                          0.4493
                                  0.3891
                                           0.2247
                                                    0.0000
     0
        0.2033
                 0.3521
                          0.4066
                                  0.3521
                                           0.2033
                                                    0.0000
        0.1839
                 0.3186
                          0.3679
                                  0.3186
                                           0.1839
                                                    0.0000
globalerror =
  0.0103
Q8:
hx = 0.5
ht=0.1
upper limit of t=1.0
approximatevalue =
        1.0898
                 1.7071
                          1.6310
                                  1.0000
                                           0.2168 -0.2929 -0.3244 -0.0000
     0
        1.0132
                 1.5947
                          1.5410
                                  0.9753
                                           0.2611
                                                   -0.2154 -0.2667
                                                                        0
     0
        0.9432
                 1.4917
                          1.4580
                                  0.9512
                                           0.2997
                                                   -0.1465
                                                            -0.2152
                                                                        0
     0
        0.8792
                 1.3973
                          1.3813
                                  0.9278
                                           0.3330 -0.0853 -0.1691
                                                                        0
```

0.9049

0.8825

0.8608

0.3860

0.4067

1.3104

1.2447

1.1838

0.3616 -0.0311 -0.1281

0.0169 -0.0916

0.0591 -0.0592

0

0

0

```
0.6729
                1.0910
                         1.1273
                                 0.8395
                                          0.4239
                                                  0.0963 -0.0304
                                                                      0
     0
       0.6316
                 1.0291
                         1.0748
                                 0.8188
                                          0.4382
                                                  0.1289
                                                          -0.0049
                                                                      0
     0
        0.5937
                0.9721
                         1.0259
                                 0.7986
                                          0.4497
                                                  0.1573
                                                           0.0176
                                                                      0
        0.5588
                0.9194
                         0.9803
                                 0.7789
                                          0.4589
                                                  0.1821
                                                           0.0374
                                                                      0
nodesX =
     0 0.5000
                1.0000
                        1.5000
                                 2.0000 2.5000
                                                  3.0000
                                                           3.5000
                                                                   4.0000
nodesY =
        0.1000 0.2000 0.3000 0.4000 0.5000 0.6000
                                                          0.7000
                                                                   0.8000
                                                                           0.9000
1.0000
Error =
 1.0e-03 *
           0.0000
                                0.0000
                                                  0.0000
     0
                         0
                                              0
                                                             0
        0.1441
                0.2053
                         0.1493
                                 0.0097
                                          0.1314
                                                  0.1916
                                                           0.1366
                                                                   0.0000
                0.3726
        0.2612
                         0.2715
                                 0.0190
                                          0.2365
                                                  0.3458
                                                           0.2467
                                                                   0.0000
        0.3554
                0.5072
                         0.3704
                                 0.0277
                                          0.3191
                                                  0.4680
                                                           0.3341
                                                                   0.0000
     0
        0.4298
                0.6138
                         0.4493
                                 0.0361
                                          0.3827
                                                  0.5628
                                                           0.4022
                                                                   0.0000
        0.4874
                         0.5112
     0
                0.6965
                                 0.0440
                                          0.4299
                                                  0.6344
                                                           0.4537
                                                                   0.0000
        0.5307
                0.7590
                         0.5585
                                 0.0515
                                          0.4634
                                                  0.6863
                                                           0.4913
                                                                   0.0000
     0
        0.5619
                0.8043
                         0.5936
                                 0.0585
                                          0.4854
                                                  0.7215
                                                           0.5171
                                                                   0.0000
     0
     0
        0.5829
                0.8352
                         0.6182
                                 0.0653
                                          0.4976
                                                  0.7429
                                                           0.5330
                                                                   0.0000
     0
        0.5954
                0.8539
                         0.6342
                                 0.0716
                                          0.5018
                                                  0.7526
                                                           0.5406
                                                                   0.0000
        0.6008
                0.8626
                         0.6428
                                 0.0776
                                          0.4994
                                                  0.7528
                                                           0.5414
                                                                   0.0000
originalvalue =
        1.0898
                1.7071
                         1.6310
                                 1.0000
                                          0.2168 -0.2929 -0.3244 -0.0000
     0
        1.0131
                         1.5409
                                          0.2613 -0.2152 -0.2666 -0.0000
     0
                1.5945
                                 0.9753
        0.9429
                 1.4914
                                 0.9512
                                          0.2999 -0.1461
                                                          -0.2149 -0.0000
     0
                         1.4578
        0.8789
                 1.3968
                         1.3810
                                 0.9277
                                          0.3333 -0.0848
                                                          -0.1688 -0.0000
     0
                                          0.3620 -0.0305
        0.8203
                 1.3101
                         1.3099
                                 0.9048
                                                         -0.1277 -0.0000
     0
        0.7666
                1.2306
                                          0.3864
                                                  0.0175 -0.0912 -0.0000
     0
                         1.2442
                                 0.8825
        0.7174
                 1.1574
                         1.1833
                                 0.8607
                                          0.4071
                                                  0.0598 -0.0587 -0.0000
     0
     0
        0.6724
                 1.0902
                         1.1267
                                 0.8395
                                          0.4244
                                                  0.0970 -0.0299 -0.0000
     0
        0.6310
                 1.0283
                         1.0741
                                 0.8187
                                          0.4387
                                                  0.1296 -0.0044 -0.0000
                0.9712
                         1.0252
                                          0.4502
                                                  0.1581
                                                           0.0181
     0
        0.5931
                                 0.7985
                                                                  -0.0000
     0
        0.5582
                0.9186
                         0.9796
                                 0.7788
                                          0.4594
                                                  0.1828
                                                           0.0379
                                                                   0.0000
globalerror =
```

8.6255e-04