1a)

commandwindow

clear

clc

syms p,

p=0.35;

g= 9.81;

m=68.1;

v=40;

t=10;

for i=1:50

 iter(i+1)=i

 p(i+1)= ((g\*m)\*(g\*m))\*exp((-(p(i))/m)\*t)-v

 Ea(i+1)=abs((p(i+1)-p(i))/p(i+1))\*100

 if Ea(i+1)<=1E-11

 break

 end

end

p'

iter'

Ea'

tablo=[iter' p' Ea']

1b)

commandwindow

clear

clc

syms p

p=0.35

g=9.81

v=40

t=10

m=68.1

for i=i:50

iter(i+1)=i

p0=(g\*m/v\*(1-exp(-(p/m)\*t)))

pprime= diff(p0)

p(i+1)= (p-(p0/pprime))

Ea(i+1)=abs((p(i+1)-p(i))/p(i+1))\*100

if Ea(i+1)<=1E-11

 break

end

end

x'

iter'

Ea'

tablo=[x' iter' Ea']

2)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| n | x | y | yprime | h |  |
| 1 | 0 | 1 | -1 | 0.1 |  |
| 2 | 0.1 | 0.9 | -0.7 | 0.1 |  |
| 3 | 0.2 | 0.83 | -0.43 | 0.1 |  |
| 4 | 0.3 | 0.787 | -0.187 | 0.1 |  |
| 5 | 0.4 | 0.7683 | 0.0317 | 0.1 |  |
| 6 | 0.5 | 0.77147 | 0.22853 | 0.1 |  |
| 7 | 0.6 | 0.794323 | 0.405677 | 0.1 |  |
| 8 | 0.7 | 0.834891 | 0.565109 | 0.1 |  |
| 9 | 0.8 | 0.891402 | 0.708598 | 0.1 |  |
| 10 | 0.9 | 0.962261 | 0.837739 | 0.1 |  |
| 11 | 1 | 1.046035 | 0.953965 | 0.1 |  |
| 12 | 1.1 | 1.141432 | 1.058568 | 0.1 |  |
| 13 | 1.2 | 1.247289 | 1.152711 | 0.1 |  |
| 14 | 1.3 | 1.36256 | 1.23744 | 0.1 |  |
| 15 | 1.4 | 1.486304 | 1.313696 | 0.1 |  |
| 16 | 1.5 | 1.617673 | 1.382327 | 0.1 |  |
|  |  |  |  |  |  |

1a)

iter =

 0 1

p =

 1.0e+05 \*

 0.0000 4.2391

Ea =

 0 99.9999

iter =

 0 1 2

p =

 1.0e+05 \*

 0.0000 4.2391 -0.0004

Ea =

 1.0e+06 \*

 0 0.0001 1.0599

iter =

 0 1 2 3

p =

 1.0e+08 \*

 0.0000 0.0042 -0.0000 1.5869

Ea =

 1.0e+06 \*

 0 0.0001 1.0599 0.0001

iter =

 0 1 2 3 4

p =

 1.0e+08 \*

 0.0000 0.0042 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 0 0.0000 0.0106 0.0000 3.9673

iter =

 0 1 2 3 4 5

p =

 1.0e+08 \*

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 0 0.0000 0.0106 0.0000 3.9673 0.0000

iter =

 0 1 2 3 4 5 6

p =

 1.0e+08 \*

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673

iter =

 0 1 2 3 4 5 6 7

p =

 1.0e+08 \*

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 0 1 2 3 4 5 6 7 8

p =

 1.0e+08 \*

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 0 1 2 3 4 5 6 7 8 9

p =

 1.0e+08 \*

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 0 1 2 3 4 5 6 7 8 9 10

p =

 1.0e+08 \*

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 0 1 2 3 4 5 6 7 8 9 10 11

p =

 1.0e+08 \*

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 0 1 2 3 4 5 6 7 8 9 10 11 12

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Column 13

 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Column 13

 3.9673

iter =

 0 1 2 3 4 5 6 7 8 9 10 11 12 13

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 14

 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 14

 3.9673 0.0000

iter =

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 15

 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 15

 3.9673 0.0000 3.9673

iter =

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 16

 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 16

 3.9673 0.0000 3.9673 0.0000

iter =

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 17

 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 17

 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 18

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 18

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 19

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 19

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 20

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 20

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Column 21

 20

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 21

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 21

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 22

 20 21

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 22

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 22

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 23

 20 21 22

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 23

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 23

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 24

 20 21 22 23

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 25

 20 21 22 23 24

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Column 25

 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Column 25

 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 26

 20 21 22 23 24 25

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 26

 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 26

 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 27

 20 21 22 23 24 25 26

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 27

 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 27

 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 28

 20 21 22 23 24 25 26 27

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 28

 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 28

 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 29

 20 21 22 23 24 25 26 27 28

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 29

 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 29

 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 30

 20 21 22 23 24 25 26 27 28 29

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 30

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 30

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 31

 20 21 22 23 24 25 26 27 28 29 30

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 31

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 31

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 32

 20 21 22 23 24 25 26 27 28 29 30 31

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 32

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 32

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 33

 20 21 22 23 24 25 26 27 28 29 30 31 32

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 33

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 33

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 34

 20 21 22 23 24 25 26 27 28 29 30 31 32 33

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 34

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 34

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 35

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 35

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 35

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 36

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 37

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Column 37

 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Column 37

 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 38

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 38

 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 38

 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 39

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 39

 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 39

 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 40

 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 40

 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Column 41

 40

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 41

 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 41

 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 42

 40 41

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 42

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 42

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 43

 40 41 42

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 43

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 43

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 44

 40 41 42 43

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 44

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 44

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 45

 40 41 42 43 44

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 45

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 45

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 46

 40 41 42 43 44 45

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 46

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 46

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 47

 40 41 42 43 44 45 46

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 47

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 47

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 48

 40 41 42 43 44 45 46 47

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 48

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 48

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 49

 40 41 42 43 44 45 46 47 48

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 48

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Column 49

 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 48

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Column 49

 3.9673

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 50

 40 41 42 43 44 45 46 47 48 49

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 48

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 49 through 50

 -0.0000 1.5869

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 48

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 49 through 50

 3.9673 0.0000

iter =

 Columns 1 through 20

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 Columns 21 through 40

 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

 Columns 41 through 51

 40 41 42 43 44 45 46 47 48 49 50

p =

 1.0e+08 \*

 Columns 1 through 12

 0.0000 0.0042 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 13 through 24

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 25 through 36

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 37 through 48

 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869 -0.0000 1.5869

 Columns 49 through 51

 -0.0000 1.5869 -0.0000

Ea =

 1.0e+08 \*

 Columns 1 through 12

 0 0.0000 0.0106 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 13 through 24

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 25 through 36

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 37 through 48

 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000 3.9673 0.0000

 Columns 49 through 51

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ans =

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ans =

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