>> a=5

a =

5

>> b=a

b =

5

>> c=b+a

c =

10

>> d=2\*c

d =

20

>> e=d/5

e =

4

>> e=5\d

e =

4

>> f=d^2

f =

400

>> g=h

Undefined function or variable 'h'.

>> s=ahrar

Undefined function or variable 'ahrar'.

>> s='ahrar'

s =

ahrar

>> q=4+3i

q =

4.0000 + 3.0000i

>> q1=2+2j

q1 =

2.0000 + 2.0000i

>> q3=4.5i

q3 =

0 + 4.5000i

>> q+q1

ans =

6.0000 + 5.0000i

>> ans^2

ans =

11.0000 +60.0000i

>> abs(-5)

ans =

5

>>

>> abs(5)

ans =

5

>> abs(q)

ans =

5

>> angle(q)

ans =

0.6435

>> k=2.6

k =

2.6000

>> k1=3e4

k1 =

30000

>> 3.5e-3

ans =

0.0035

>> a

a =

5

>> A

Undefined function or variable 'A'.

>> 2f=6

2f=6

|

Error: Unexpected MATLAB expression.

>> who

Your variables are:

a ans b c d e f k k1 q q1 q3 s

>> whos

Name Size Bytes Class Attributes

a 1x1 8 double

ans 1x1 8 double

b 1x1 8 double

c 1x1 8 double

d 1x1 8 double

e 1x1 8 double

f 1x1 8 double

k 1x1 8 double

k1 1x1 8 double

q 1x1 16 double complex

q1 1x1 16 double complex

q3 1x1 16 double complex

s 1x5 10 char

>> clear a

>> clear q\*

>> clear

>> pi

ans =

3.1416

>> format long

>> pi

ans =

3.141592653589793

>> format short

>> pi\*2

ans =

6.2832

>> realmax

ans =

1.7977e+308

>> realmin

ans =

2.2251e-308

>> eps

ans =

2.2204e-16

>> 5/0

ans =

Inf

>> 0/0

ans =

NaN

>> -5/0

ans =

-Inf

>> a=5

a =

5

>> a(2)=3

a =

5 3

>> a(3)=-4

a =

5 3 -4

>> a(5)=9

a =

5 3 -4 0 9

>> b=[5 3 -4 0 9]

b =

5 3 -4 0 9

>> c=[5,3-4,0,9]

c =

5 -1 0 9

>> c=[5,3,-4,0,9]

c =

5 3 -4 0 9

>> f=1:6

f =

1 2 3 4 5 6

>> f1=2:3:10

f1 =

2 5 8

>> f3=10:-1:5

f3 =

10 9 8 7 6 5

>> f4=2:.01:4

f4 =

Columns 1 through 7

2.0000 2.0100 2.0200 2.0300 2.0400 2.0500 2.0600

Columns 8 through 14

2.0700 2.0800 2.0900 2.1000 2.1100 2.1200 2.1300

Columns 15 through 21

2.1400 2.1500 2.1600 2.1700 2.1800 2.1900 2.2000

Columns 22 through 28

2.2100 2.2200 2.2300 2.2400 2.2500 2.2600 2.2700

Columns 29 through 35

2.2800 2.2900 2.3000 2.3100 2.3200 2.3300 2.3400

Columns 36 through 42

2.3500 2.3600 2.3700 2.3800 2.3900 2.4000 2.4100

Columns 43 through 49

2.4200 2.4300 2.4400 2.4500 2.4600 2.4700 2.4800

Columns 50 through 56

2.4900 2.5000 2.5100 2.5200 2.5300 2.5400 2.5500

Columns 57 through 63

2.5600 2.5700 2.5800 2.5900 2.6000 2.6100 2.6200

Columns 64 through 70

2.6300 2.6400 2.6500 2.6600 2.6700 2.6800 2.6900

Columns 71 through 77

2.7000 2.7100 2.7200 2.7300 2.7400 2.7500 2.7600

Columns 78 through 84

2.7700 2.7800 2.7900 2.8000 2.8100 2.8200 2.8300

Columns 85 through 91

2.8400 2.8500 2.8600 2.8700 2.8800 2.8900 2.9000

Columns 92 through 98

2.9100 2.9200 2.9300 2.9400 2.9500 2.9600 2.9700

Columns 99 through 105

2.9800 2.9900 3.0000 3.0100 3.0200 3.0300 3.0400

Columns 106 through 112

3.0500 3.0600 3.0700 3.0800 3.0900 3.1000 3.1100

Columns 113 through 119

3.1200 3.1300 3.1400 3.1500 3.1600 3.1700 3.1800

Columns 120 through 126

3.1900 3.2000 3.2100 3.2200 3.2300 3.2400 3.2500

Columns 127 through 133

3.2600 3.2700 3.2800 3.2900 3.3000 3.3100 3.3200

Columns 134 through 140

3.3300 3.3400 3.3500 3.3600 3.3700 3.3800 3.3900

Columns 141 through 147

3.4000 3.4100 3.4200 3.4300 3.4400 3.4500 3.4600

Columns 148 through 154

3.4700 3.4800 3.4900 3.5000 3.5100 3.5200 3.5300

Columns 155 through 161

3.5400 3.5500 3.5600 3.5700 3.5800 3.5900 3.6000

Columns 162 through 168

3.6100 3.6200 3.6300 3.6400 3.6500 3.6600 3.6700

Columns 169 through 175

3.6800 3.6900 3.7000 3.7100 3.7200 3.7300 3.7400

Columns 176 through 182

3.7500 3.7600 3.7700 3.7800 3.7900 3.8000 3.8100

Columns 183 through 189

3.8200 3.8300 3.8400 3.8500 3.8600 3.8700 3.8800

Columns 190 through 196

3.8900 3.9000 3.9100 3.9200 3.9300 3.9400 3.9500

Columns 197 through 201

3.9600 3.9700 3.9800 3.9900 4.0000

>> a

a =

5 3 -4 0 9

>> f

f =

1 2 3 4 5 6

>> a(3)

ans =

-4

>> a(3)=-10

a =

5 3 -10 0 9

>> a([3 1])

ans =

-10 5

>> h=a([3 1])

h =

-10 5

>> a

a =

5 3 -10 0 9

>> a([3 1])=0

a =

0 3 0 0 9

>> a([3 1])=[8 4]

a =

4 3 8 0 9

>> f

f =

1 2 3 4 5 6

>> a

a =

4 3 8 0 9

>> a([1 2 3])

ans =

4 3 8

>> a(1:3)

ans =

4 3 8

>> a(1:4)

ans =

4 3 8 0

>> a

a =

4 3 8 0 9

>> a(2:4)

ans =

3 8 0

>> a(2:4)=-1

a =

4 -1 -1 -1 9

>> a

a =

4 -1 -1 -1 9

>> a(2:4)=[9 8]

In an assignment A(I) = B, the number of elements in B and I must be

the same.

>> a(2:4)=[9 8 -8]

a =

4 9 8 -8 9

>> a(end)

ans =

9

>> a(3:end)

ans =

8 -8 9

>> r=[a 5:-2:0 f(4)]

r =

4 9 8 -8 9 5 3 1 4

>> f

f =

1 2 3 4 5 6

>> r

r =

4 9 8 -8 9 5 3 1 4

>> r(2)=[]

r =

4 8 -8 9 5 3 1 4

>> r(5:end)=[]

r =

4 8 -8 9

>> % make matrix

>> b=[2 5 6;1 2 8]

b =

2 5 6

1 2 8

>> c=[5 5 8 9

8 7 4 1

5 8 9 7]

c =

5 5 8 9

8 7 4 1

5 8 9 7

>> c(2,3)

ans =

4

>> c(3,1)=0

c =

5 5 8 9

8 7 4 1

0 8 9 7

>> c(2,2:4)

ans =

7 4 1

>> c(1:end,3)

ans =

8

4

9

>> g=[2;5;7;9]

g =

2

5

7

9

>> w=[2 5 7 9]'

w =

2

5

7

9

>> c

c =

5 5 8 9

8 7 4 1

0 8 9 7

>> c(5)

ans =

7

>> c(2,:)

ans =

8 7 4 1

>> c(:,3)

ans =

8

4

9

>> c

c =

5 5 8 9

8 7 4 1

0 8 9 7

>> c(:,3)=[-1 -2 -3]'

c =

5 5 -1 9

8 7 -2 1

0 8 -3 7

>> c=[c;[1 2 3 4]]

c =

5 5 -1 9

8 7 -2 1

0 8 -3 7

1 2 3 4

>> c=[c [1 2 3 4]']

c =

5 5 -1 9 1

8 7 -2 1 2

0 8 -3 7 3

1 2 3 4 4

>> c(3,:)=[]

c =

5 5 -1 9 1

8 7 -2 1 2

1 2 3 4 4

>> c(:,1)=[]

c =

5 -1 9 1

7 -2 1 2

2 3 4 4

>> c(:,3:end)=[]

c =

5 -1

7 -2

2 3

>> a=[1 2 3 4

1 9 4 7

4 7 2 -1

4 1 2 8]

a =

1 2 3 4

1 9 4 7

4 7 2 -1

4 1 2 8

>> a^-1

ans =

-0.0258 -0.1245 0.1474 0.1402

-0.1803 0.1288 0.0315 -0.0186

0.6223 -0.1588 0.0501 -0.1660

-0.1202 0.0858 -0.0901 0.0987

>> a.^-1

ans =

1.0000 0.5000 0.3333 0.2500

1.0000 0.1111 0.2500 0.1429

0.2500 0.1429 0.5000 -1.0000

0.2500 1.0000 0.5000 0.1250

>> b=[1 2

-1 4]

b =

1 2

-1 4

>> b'

ans =

1 -1

2 4

>> b.'

ans =

1 -1

2 4

>> b=[2 3+2i

1+5i 1+7i]

b =

2.0000 3.0000 + 2.0000i

1.0000 + 5.0000i 1.0000 + 7.0000i

>> b'

ans =

2.0000 1.0000 - 5.0000i

3.0000 - 2.0000i 1.0000 - 7.0000i

>> b.'

ans =

2.0000 1.0000 + 5.0000i

3.0000 + 2.0000i 1.0000 + 7.0000i

>> a

a =

1 2 3 4

1 9 4 7

4 7 2 -1

4 1 2 8

>> det(a)

ans =

-699

>> f=randi(9,10,10)

f =

8 2 6 7 4 3 7 8 4 1

9 9 1 1 4 7 3 3 8 1

2 9 8 3 7 6 5 8 6 5

9 5 9 1 8 2 7 3 5 8

6 8 7 1 2 2 9 9 9 9

1 2 7 8 5 5 9 4 3 2

3 4 7 7 5 9 5 2 7 6

5 9 4 3 6 4 2 3 7 5

9 8 6 9 7 6 2 6 4 1

9 9 2 1 7 3 3 5 6 4

>> det(f)

ans =

-1.1771e+08

>> int('sin(x)')

Warning: The method char/int will be removed in a future relase. Use

sym/int instead. For example int(sym('x^2')).

> In char.int at 10

ans =

-cos(x)

>> int('x')

Warning: The method char/int will be removed in a future relase. Use

sym/int instead. For example int(sym('x^2')).

> In char.int at 10

ans =

x^2/2

>> int('x^2\*sin(x)')

Warning: The method char/int will be removed in a future relase. Use

sym/int instead. For example int(sym('x^2')).

> In char.int at 10

ans =

2\*x\*sin(x) - cos(x)\*(x^2 - 2)

>> diff('tan(sin(log(x^2)))')

Warning: The method char/diff will be removed in a future release. Use

sym/diff instead. For example diff(sym('x^2')). After removal

diff('x^2') will return diff(double('x^2')).

> In char.diff at 10

ans =

(2\*cos(log(x^2))\*(tan(sin(log(x^2)))^2 + 1))/x

>> syms x

>> diff(tan(sin(log(x^2))))

ans =

(2\*cos(log(x^2))\*(tan(sin(log(x^2)))^2 + 1))/x

>> int(sin(x),0,pi)

ans =

2

>> int(sin(x)/x,0,pi/4)

ans =

sinint(pi/4)

>> int(sin(x)/x,0,pi/4)

ans =

sinint(pi/4)

>> quad(@sin(x)./x,0,pi/4)

quad(@sin(x)./x,0,pi/4)

|

Error: Unbalanced or unexpected parenthesis or bracket.

>> quad(@(x) sin(x)./x,0,pi/4)

ans =

0.7590

>> int(sin(x)^0.5)

ans =

-2\*ellipticE(pi/4 - x/2, 2)

>> x=0:.1:2\*pi;

>> a=[5 4 7 8]

a =

5 4 7 8

>> a^2

Error using ^

Inputs must be a scalar and a square matrix.

To compute elementwise POWER, use POWER (.^) instead.

>> a.^2

ans =

25 16 49 64

>> a\*[2 5 7]

Error using \*

Inner matrix dimensions must agree.

>> y=x.\*sin(x);

>> r=2.5

r =

2.5000

>> w=2.5;

>> plot(x,y)

>> y=x.\*sin(4\*x);

>> plot(x,y)

>> t=0:.01:2\*pi

t =

Columns 1 through 7

0 0.0100 0.0200 0.0300 0.0400 0.0500 0.0600

Columns 8 through 14

0.0700 0.0800 0.0900 0.1000 0.1100 0.1200 0.1300

Columns 15 through 21

0.1400 0.1500 0.1600 0.1700 0.1800 0.1900 0.2000

Columns 22 through 28

0.2100 0.2200 0.2300 0.2400 0.2500 0.2600 0.2700

Columns 29 through 35

0.2800 0.2900 0.3000 0.3100 0.3200 0.3300 0.3400

Columns 36 through 42

0.3500 0.3600 0.3700 0.3800 0.3900 0.4000 0.4100

Columns 43 through 49

0.4200 0.4300 0.4400 0.4500 0.4600 0.4700 0.4800

Columns 50 through 56

0.4900 0.5000 0.5100 0.5200 0.5300 0.5400 0.5500

Columns 57 through 63

0.5600 0.5700 0.5800 0.5900 0.6000 0.6100 0.6200

Columns 64 through 70

0.6300 0.6400 0.6500 0.6600 0.6700 0.6800 0.6900

Columns 71 through 77

0.7000 0.7100 0.7200 0.7300 0.7400 0.7500 0.7600

Columns 78 through 84

0.7700 0.7800 0.7900 0.8000 0.8100 0.8200 0.8300

Columns 85 through 91

0.8400 0.8500 0.8600 0.8700 0.8800 0.8900 0.9000

Columns 92 through 98

0.9100 0.9200 0.9300 0.9400 0.9500 0.9600 0.9700

Columns 99 through 105

0.9800 0.9900 1.0000 1.0100 1.0200 1.0300 1.0400

Columns 106 through 112

1.0500 1.0600 1.0700 1.0800 1.0900 1.1000 1.1100

Columns 113 through 119

1.1200 1.1300 1.1400 1.1500 1.1600 1.1700 1.1800

Columns 120 through 126

1.1900 1.2000 1.2100 1.2200 1.2300 1.2400 1.2500

Columns 127 through 133

1.2600 1.2700 1.2800 1.2900 1.3000 1.3100 1.3200

Columns 134 through 140

1.3300 1.3400 1.3500 1.3600 1.3700 1.3800 1.3900

Columns 141 through 147

1.4000 1.4100 1.4200 1.4300 1.4400 1.4500 1.4600

Columns 148 through 154

1.4700 1.4800 1.4900 1.5000 1.5100 1.5200 1.5300

Columns 155 through 161

1.5400 1.5500 1.5600 1.5700 1.5800 1.5900 1.6000

Columns 162 through 168

1.6100 1.6200 1.6300 1.6400 1.6500 1.6600 1.6700

Columns 169 through 175

1.6800 1.6900 1.7000 1.7100 1.7200 1.7300 1.7400

Columns 176 through 182

1.7500 1.7600 1.7700 1.7800 1.7900 1.8000 1.8100

Columns 183 through 189

1.8200 1.8300 1.8400 1.8500 1.8600 1.8700 1.8800

Columns 190 through 196

1.8900 1.9000 1.9100 1.9200 1.9300 1.9400 1.9500

Columns 197 through 203

1.9600 1.9700 1.9800 1.9900 2.0000 2.0100 2.0200

Columns 204 through 210

2.0300 2.0400 2.0500 2.0600 2.0700 2.0800 2.0900

Columns 211 through 217

2.1000 2.1100 2.1200 2.1300 2.1400 2.1500 2.1600

Columns 218 through 224

2.1700 2.1800 2.1900 2.2000 2.2100 2.2200 2.2300

Columns 225 through 231

2.2400 2.2500 2.2600 2.2700 2.2800 2.2900 2.3000

Columns 232 through 238

2.3100 2.3200 2.3300 2.3400 2.3500 2.3600 2.3700

Columns 239 through 245

2.3800 2.3900 2.4000 2.4100 2.4200 2.4300 2.4400

Columns 246 through 252

2.4500 2.4600 2.4700 2.4800 2.4900 2.5000 2.5100

Columns 253 through 259

2.5200 2.5300 2.5400 2.5500 2.5600 2.5700 2.5800

Columns 260 through 266

2.5900 2.6000 2.6100 2.6200 2.6300 2.6400 2.6500

Columns 267 through 273

2.6600 2.6700 2.6800 2.6900 2.7000 2.7100 2.7200

Columns 274 through 280

2.7300 2.7400 2.7500 2.7600 2.7700 2.7800 2.7900

Columns 281 through 287

2.8000 2.8100 2.8200 2.8300 2.8400 2.8500 2.8600

Columns 288 through 294

2.8700 2.8800 2.8900 2.9000 2.9100 2.9200 2.9300

Columns 295 through 301

2.9400 2.9500 2.9600 2.9700 2.9800 2.9900 3.0000

Columns 302 through 308

3.0100 3.0200 3.0300 3.0400 3.0500 3.0600 3.0700

Columns 309 through 315

3.0800 3.0900 3.1000 3.1100 3.1200 3.1300 3.1400

Columns 316 through 322

3.1500 3.1600 3.1700 3.1800 3.1900 3.2000 3.2100

Columns 323 through 329

3.2200 3.2300 3.2400 3.2500 3.2600 3.2700 3.2800

Columns 330 through 336

3.2900 3.3000 3.3100 3.3200 3.3300 3.3400 3.3500

Columns 337 through 343

3.3600 3.3700 3.3800 3.3900 3.4000 3.4100 3.4200

Columns 344 through 350

3.4300 3.4400 3.4500 3.4600 3.4700 3.4800 3.4900

Columns 351 through 357

3.5000 3.5100 3.5200 3.5300 3.5400 3.5500 3.5600

Columns 358 through 364

3.5700 3.5800 3.5900 3.6000 3.6100 3.6200 3.6300

Columns 365 through 371

3.6400 3.6500 3.6600 3.6700 3.6800 3.6900 3.7000

Columns 372 through 378

3.7100 3.7200 3.7300 3.7400 3.7500 3.7600 3.7700

Columns 379 through 385

3.7800 3.7900 3.8000 3.8100 3.8200 3.8300 3.8400

Columns 386 through 392

3.8500 3.8600 3.8700 3.8800 3.8900 3.9000 3.9100

Columns 393 through 399

3.9200 3.9300 3.9400 3.9500 3.9600 3.9700 3.9800

Columns 400 through 406

3.9900 4.0000 4.0100 4.0200 4.0300 4.0400 4.0500

Columns 407 through 413

4.0600 4.0700 4.0800 4.0900 4.1000 4.1100 4.1200

Columns 414 through 420

4.1300 4.1400 4.1500 4.1600 4.1700 4.1800 4.1900

Columns 421 through 427

4.2000 4.2100 4.2200 4.2300 4.2400 4.2500 4.2600

Columns 428 through 434

4.2700 4.2800 4.2900 4.3000 4.3100 4.3200 4.3300

Columns 435 through 441

4.3400 4.3500 4.3600 4.3700 4.3800 4.3900 4.4000

Columns 442 through 448

4.4100 4.4200 4.4300 4.4400 4.4500 4.4600 4.4700

Columns 449 through 455

4.4800 4.4900 4.5000 4.5100 4.5200 4.5300 4.5400

Columns 456 through 462

4.5500 4.5600 4.5700 4.5800 4.5900 4.6000 4.6100

Columns 463 through 469

4.6200 4.6300 4.6400 4.6500 4.6600 4.6700 4.6800

Columns 470 through 476

4.6900 4.7000 4.7100 4.7200 4.7300 4.7400 4.7500

Columns 477 through 483

4.7600 4.7700 4.7800 4.7900 4.8000 4.8100 4.8200

Columns 484 through 490

4.8300 4.8400 4.8500 4.8600 4.8700 4.8800 4.8900

Columns 491 through 497

4.9000 4.9100 4.9200 4.9300 4.9400 4.9500 4.9600

Columns 498 through 504

4.9700 4.9800 4.9900 5.0000 5.0100 5.0200 5.0300

Columns 505 through 511

5.0400 5.0500 5.0600 5.0700 5.0800 5.0900 5.1000

Columns 512 through 518

5.1100 5.1200 5.1300 5.1400 5.1500 5.1600 5.1700

Columns 519 through 525

5.1800 5.1900 5.2000 5.2100 5.2200 5.2300 5.2400

Columns 526 through 532

5.2500 5.2600 5.2700 5.2800 5.2900 5.3000 5.3100

Columns 533 through 539

5.3200 5.3300 5.3400 5.3500 5.3600 5.3700 5.3800

Columns 540 through 546

5.3900 5.4000 5.4100 5.4200 5.4300 5.4400 5.4500

Columns 547 through 553

5.4600 5.4700 5.4800 5.4900 5.5000 5.5100 5.5200

Columns 554 through 560

5.5300 5.5400 5.5500 5.5600 5.5700 5.5800 5.5900

Columns 561 through 567

5.6000 5.6100 5.6200 5.6300 5.6400 5.6500 5.6600

Columns 568 through 574

5.6700 5.6800 5.6900 5.7000 5.7100 5.7200 5.7300

Columns 575 through 581

5.7400 5.7500 5.7600 5.7700 5.7800 5.7900 5.8000

Columns 582 through 588

5.8100 5.8200 5.8300 5.8400 5.8500 5.8600 5.8700

Columns 589 through 595

5.8800 5.8900 5.9000 5.9100 5.9200 5.9300 5.9400

Columns 596 through 602

5.9500 5.9600 5.9700 5.9800 5.9900 6.0000 6.0100

Columns 603 through 609

6.0200 6.0300 6.0400 6.0500 6.0600 6.0700 6.0800

Columns 610 through 616

6.0900 6.1000 6.1100 6.1200 6.1300 6.1400 6.1500

Columns 617 through 623

6.1600 6.1700 6.1800 6.1900 6.2000 6.2100 6.2200

Columns 624 through 629

6.2300 6.2400 6.2500 6.2600 6.2700 6.2800

>> r=1-cos(t);

>> polar(t,r)

>>