>> 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)

>>