>> a = [-3, 1, 7, 0, 4]

a =

-3 1 7 0 4

>> b=[3.7 1.8 2.9]

b =

3.7000 1.8000 2.9000

>> format short e

>> b=[3.7 1.8 2.9]

b =

3.7000e+00 1.8000e+00 2.9000e+00

>> fomat short

Undefined function or variable 'fomat'.

Did you mean:

>> format short

>> c=[1;0;-1;3;-5]

c =

1

0

-1

3

-5

>> length(a)

ans =

5

>> numel(a)

ans =

5

>> size(a)

ans =

1 5

>> length(b)

ans =

3

>> numel(b)

ans =

3

>> size(b)

ans =

1 3

>> a(3)

ans =

7

>> a(3,4)

Index in position 1 exceeds array bounds (must not exceed 1).

>> a([3,5])

ans =

7 4

>> ind=[2 5 3]

ind =

2 5 3

>> a(ind)

ans =

1 4 7

>> a(size(a))

ans =

-3 4

>> a(length(a))

ans =

4

>> a(end)

ans =

4

>> []

ans =

[]

>> numel([])

ans =

0

>> a(4)=[]

a =

-3 1 7 4

>> a(4)=-4

a =

-3 1 7 -4

>> a(n)=4

Undefined function or variable 'n'.

>> a(end)=4

a =

-3 1 7 4

>> a(end)=-4

a =

-3 1 7 -4

>> a(8)=2

a =

-3 1 7 -4 0 0 0 2

>> a(5:7)

ans =

0 0 0

>> a(5:7)=[]

a =

-3 1 7 -4 2

>> 5:7=[5 6 7]

5:7=[5 6 7]

↑

Error: Incorrect use of '=' operator. To assign a value to a variable, use '='. To compare values for

equality, use '=='.

>> N=[1:5]

N =

1 2 3 4 5

>> a(1:2:10)

Index exceeds the number of array elements (5).

>> a(1:2:5)

ans =

-3 7 2

>> a(1:2:6)

ans =

-3 7 2

>> a([1 3 5])

ans =

-3 7 2

>> a(5:1)

ans =

1×0 empty double row vector

>> a(5:-1:1)

ans =

2 -4 7 1 -3

>> 1/0

ans =

Inf

>> -1/0

ans =

-Inf

>> Inf/Inf

ans =

NaN

>> 0/0

ans =

NaN

>> 0.^(Inf)

ans =

0

>> 0^(Inf)

ans =

0

>> 0^(-Inf)

ans =

Inf

>> sum(a)

ans =

3

>> prod(c)

ans =

0

>> prod(a)

ans =

168

>> prod(c)

ans =

0

>> prod(b)

ans =

19.3140

>> sum(b)

ans =

8.4000

>> a=2

a =

2

>> a+2

ans =

4

>> a=[-3, 1, 7, -4, 2]

a =

-3 1 7 -4 2

>> a+2

ans =

-1 3 9 -2 4

>> a = a+2

a =

-1 3 9 -2 4

>> b\*10

ans =

37 18 29

>> a+c

ans =

0 4 10 -1 5

-1 3 9 -2 4

-2 2 8 -3 3

2 6 12 1 7

-6 -2 4 -7 -1

>> a\*c

ans =

-36

>> a+N

ans =

0 5 12 2 9

>> c\*a

ans =

-1 3 9 -2 4

0 0 0 0 0

1 -3 -9 2 -4

-3 9 27 -6 12

5 -15 -45 10 -20

>> a\*N

Error using \*

Incorrect dimensions for matrix multiplication. Check that the number of columns in the first matrix

matches the number of rows in the second matrix. To perform elementwise multiplication, use '.\*'.

>> a.\*N

ans =

-1 6 27 -8 20

>> dot(a,c)

ans =

-36

>> dot(a,N)

ans =

44

>> a\*N'

ans =

44

>> [a,N]

ans =

-1 3 9 -2 4 1 2 3 4 5

>> horzcat(a,N)

ans =

-1 3 9 -2 4 1 2 3 4 5

>> [a;N]

ans =

-1 3 9 -2 4

1 2 3 4 5

>> vercat(a,N)

Undefined function or variable 'vercat'.

Did you mean:

>> vertcat(a,N)

ans =

-1 3 9 -2 4

1 2 3 4 5

>> clear(b)

Error using clear

Must be a string scalar or character vector.

>> clearb

Undefined function or variable 'clearb'.

Did you mean:

>> clear b

Undefined function or variable 'b'.

Undefined function or variable 'b'.

>> b=[]

b =

[]

>> ones(3)

ans =

1 1 1

1 1 1

1 1 1

>> zeros(2)

ans =

0 0

0 0

>> ege(4)

Undefined function or variable 'ege'.

Did you mean:

>> edge(4)

>> zeros(2,3)

ans =

0 0 0

0 0 0

>> eye(4)

ans =

1 0 0 0

0 1 0 0

0 0 1 0

0 0 0 1

>> diag([1 3 5 7])

ans =

1 0 0 0

0 3 0 0

0 0 5 0

0 0 0 7

>> D=ans

D =

1 0 0 0

0 3 0 0

0 0 5 0

0 0 0 7

>> inv(D)

ans =

1.0000 0 0 0

0 0.3333 0 0

0 0 0.2000 0

0 0 0 0.1429

>> det(D)

ans =

105

>> (D^(-1))\*D

ans =

1 0 0 0

0 1 0 0

0 0 1 0

0 0 0 1

>> a=[-3, 2, 1; 0,3,1]

a =

-3 2 1

0 3 1

>> b=[4,2;-1,1;3,-2]

b =

4 2

-1 1

3 -2

>> a\*b

ans =

-11 -6

0 1

>> b\*a

ans =

-12 14 6

3 1 0

-9 0 1

>> A\*X1

Undefined function or variable 'A'.

Did you mean:

>> D=diag([1 2 3])

D =

1 0 0

0 2 0

0 0 3

>> F=diag([2 1 -2])

F =

2 0 0

0 1 0

0 0 -2

>> D/F

ans =

0.5000 0 0

0 2.0000 0

0 0 -1.5000

>> F\D

ans =

0.5000 0 0

0 2.0000 0

0 0 -1.5000

>> F/D

ans =

2.0000 0 0

0 0.5000 0

0 0 -0.6667

>> D\F

ans =

2.0000 0 0

0 0.5000 0

0 0 -0.6667

>> b'

ans =

4 -1 3

2 1 -2

>> a+b'

ans =

1 1 4

2 4 -1

>> a.+b'

a.+b'

↑

Error: Invalid use of operator.

>> a'+b

ans =

1 2

1 4

4 -1

>>

>> a.+b'

a.+b'

↑

Error: Invalid use of operator.

>> a'.+b

a'.+b

↑

Error: Invalid use of operator.

>> b'.-a

b'.-a

↑

Error: Invalid use of operator.

>> a'.\*b

ans =

-12 0

-2 3

3 -2

>> a'\*b

Error using \*

Incorrect dimensions for matrix multiplication. Check that the number of columns in the first matrix

matches the number of rows in the second matrix. To perform elementwise multiplication, use '.\*'.

>> a'./b

ans =

-0.7500 0

-2.0000 3.0000

0.3333 -0.5000

>> a'.\b

ans =

-1.3333 Inf

-0.5000 0.3333

3.0000 -2.0000

>> D.^2

ans =

1 0 0

0 4 0

0 0 9

>> M=[1 1 1; 2 2 2; 3 3 3]

M =

1 1 1

2 2 2

3 3 3

>> M^2

ans =

6 6 6

12 12 12

18 18 18

>> M.^2

ans =

1 1 1

4 4 4

9 9 9

>> length(a)

ans =

3

>> numel(a)

ans =

6

>> size(a)

ans =

2 3

>> max(size(a))

ans =

3

>> a(2,3)

ans =

1

>> a(end, end)3

a(end, end)3

↑

Error: Invalid expression. Check for missing multiplication operator, missing or unbalanced delimiters,

or other syntax error. To construct matrices, use brackets instead of parentheses.

Did you mean:

>> a(end, end)

ans =

1

>> a(6)

ans =

1

>> a(5)

ans =

1

>> a(4)

ans =

3

>> a(1, 3)=4

a =

-3 2 4

0 3 1

>> a(5)

ans =

4

>> reshepe(a,3,2)

Undefined function or variable 'reshepe'.

Did you mean:

>> reshape(a,3,2)

ans =

-3 3

0 4

2 1

>> a(1:end)

ans =

-3 0 2 3 4 1

>> a(:)

ans =

-3

0

2

3

4

1

>> (a(:))'

ans =

-3 0 2 3 4 1

>> a(1:end, [1 3])

ans =

-3 4

0 1

>> a(:,end)=[]

a =

-3 2

0 3

>> a(:,end)

ans =

2

3

>> a(:,end)=[2]

a =

-3 2

0 2

>> x=0:0.1:2\*pi

x =

Columns 1 through 10

0 0.1000 0.2000 0.3000 0.4000 0.5000 0.6000 0.7000 0.8000 0.9000

Columns 11 through 20

1.0000 1.1000 1.2000 1.3000 1.4000 1.5000 1.6000 1.7000 1.8000 1.9000

Columns 21 through 30

2.0000 2.1000 2.2000 2.3000 2.4000 2.5000 2.6000 2.7000 2.8000 2.9000

Columns 31 through 40

3.0000 3.1000 3.2000 3.3000 3.4000 3.5000 3.6000 3.7000 3.8000 3.9000

Columns 41 through 50

4.0000 4.1000 4.2000 4.3000 4.4000 4.5000 4.6000 4.7000 4.8000 4.9000

Columns 51 through 60

5.0000 5.1000 5.2000 5.3000 5.4000 5.5000 5.6000 5.7000 5.8000 5.9000

Columns 61 through 63

6.0000 6.1000 6.2000

>> x=0:0.1:2\*pi;

>> y=sin(x)

y =

Columns 1 through 10

0 0.0998 0.1987 0.2955 0.3894 0.4794 0.5646 0.6442 0.7174 0.7833

Columns 11 through 20

0.8415 0.8912 0.9320 0.9636 0.9854 0.9975 0.9996 0.9917 0.9738 0.9463

Columns 21 through 30

0.9093 0.8632 0.8085 0.7457 0.6755 0.5985 0.5155 0.4274 0.3350 0.2392

Columns 31 through 40

0.1411 0.0416 -0.0584 -0.1577 -0.2555 -0.3508 -0.4425 -0.5298 -0.6119 -0.6878

Columns 41 through 50

-0.7568 -0.8183 -0.8716 -0.9162 -0.9516 -0.9775 -0.9937 -0.9999 -0.9962 -0.9825

Columns 51 through 60

-0.9589 -0.9258 -0.8835 -0.8323 -0.7728 -0.7055 -0.6313 -0.5507 -0.4646 -0.3739

Columns 61 through 63

-0.2794 -0.1822 -0.0831

>> y=sin(x);

>> plot(x,y);

>> stem(x,y);

>> y=x;

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

>> plot3(x,y,z)

>> [xx yy]=meshgrid(x,y);

>> plot3(xx,yy,z)

>> zz=cos(xx).\*sin(yy);

>> plot3(xx,yy,zz)

>> mesh(xx,yy,zz);

>> surf(xx, yy, zz);

>>