a=5

a =

 5

a^3

ans =

 125

(a-8)^0.5

ans =

 0.0000 + 1.7321i

3/4

ans =

 0.7500

3\4

ans =

 1.3333

format long

3\4

ans =

 1.333333333333333

format rat

1.33333

ans =

 133333/100000

1.3333333333333333333333

ans =

 4/3

format

3\4

ans =

 1.3333

factorial(4)

ans =

 24

clc

whos

 Name Size Bytes Class Attributes

 a 1x1 8 double

 ans 1x1 8 double

a

a =

 5

clc

a=1;

b=1;

c=2;

d=b^2-4\*a\*c;

x1=(-b+d^0.5)/(2\*a)

x1 =

 -0.5000 + 1.3229i

X2=(-b-d^0.5)/(2\*a)

X2 =

 -0.5000 - 1.3229i

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

 x1 1x1 16 double complex

 x2 1x1 16 double complex

clc

x=[3 2 5 7]

x =

 3 2 5 7

prod(x)

ans =

 210

factorial(x)

ans =

 Columns 1 through 4

 6 2 120 5040

x

x =

 3 2 5 7

x(3)^2

ans =

 25

y=1:2:101;

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

 x 1x4 32 double

 x1 1x1 16 double complex

 y 1x51 408 double

x

x =

 3 2 5 7

x(x>4)

ans =

 5 7

x(1:2:3)

ans =

 3 5

clc

p=[2 -3 2 1]

p =

 2 -3 2 1

p=[2, -3, 2, 1]

p =

 2 -3 2 1

sum(p)

ans =

 2

polyval(p,1)

ans =

 2

polyval(p,[1 2 0])

ans =

 2 9 1

roots(p)

ans =

 0.9086 + 0.8665i

 0.9086 - 0.8665i

 -0.3172

%grafico de -5 a 5

x=-5:0.01:5;

y=polyval(p,x);

whos

 Name Size Bytes Class Attributes

 a 1x1 8 double

 ans 3x1 48 double complex

 b 1x1 8 double

 c 1x1 8 double

 d 1x1 8 double

 p 1x4 32 double

 x 1x1001 8008 double

 x1 1x1 16 double complex

 y 1x1001 8008 double

plot(x,y)

clc

p=[2, -3, 2, 1];

roots(p)

ans =

 0.9086 + 0.8665i

 0.9086 - 0.8665i

 -0.3172

x=-5:0.01:5;

y=polyval(p,x);

plot(x,y)

polyder(p)

ans =

 6 -6 2

q=polyder(p)

q =

 6 -6 2

conv(p,q)

ans =

 12 -30 34 -12 -2 2

clc

a=[1,3 ; 4 2]

a =

 1 3

 4 2

det(a)

ans =

 -10

a\*a

ans =

 13 9

 12 16

a^5

ans =

 1321 1353

 1804 1772

a

a =

 1 3

 4 2

a(1,2)

ans =

 3

sum(a)

ans =

 5 5

sum(sum(a))

ans =

 10

a

a =

 1 3

 4 2

b=a^-1

b =

 -0.2000 0.3000

 0.4000 -0.1000

a\*b

ans =

 1.0000 -0.0000

 0 1.0000

inv(a)

ans =

 -0.2000 0.3000

 0.4000 -0.1000

clc

A=[2 4;1 -1];

b=[10; 2]

b =

 10

 2

x=A^-1\*b

x =

 3.0000

 1.0000

x=A\b

x =

 3

 1

A=[2 4;1 -1];

b=[10; 2];

x=A\b

x =

 3

 1