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