

```

>> clc
>> 2+4.5
    ans = 6.5000
>> x=2+4.5
    x = 6.5000
>> a=[ 2 4+3 6^0.5]
    a =
    2.0000    7.0000    2.4495
>> b=[2 3; 6 1 8]
    error: vertical dimensions mismatch (1x2 vs 1x3)
>> b=[2 3; 6 1 ]
    b =
         2     3
         6     1
>> whos
    Variables in the current scope:
    Attr Name      Size      Bytes  Class
    ==== =====
         a         1x3         24  double
        ans         1x1          8  double
         b         2x2         32  double
         x         1x1          8  double
    Total is 9 elements using 72 bytes
>> 3/4
    ans = 0.75000
>> 3\4
    ans = 1.3333
>> b/b
    ans =
         1     0
         0     1
>> %Hallar la matriz c tal que c*c=b
>> c=b^0.5
    c =
    1.34185 + 0.73503i    0.84357 - 0.58460i
    1.68715 - 1.16919i    1.06065 + 0.92990i
>> c*c
    ans =
    2.0000 + 0.0000i    3.0000 - 0.0000i
    6.0000 + 0.0000i    1.0000 - 0.0000i
>> clc
>> x
    x = 6.5000
>> b
    b =
         2     3
         6     1
>> mod(13,3)
    ans = 1
>> mod(14,3)
    ans = 2
>> mod(14.5,3)
    ans = 2.5000
>> mod(14.5,3.1)
    ans = 2.1000
>> clc
>> a=3
    a = 3
>> a=3;
>> a=3;b=-8;c=1;

```

```
>> d=b*b-4*a*c;
>> x1=(-b+d^0.5)/(2*a)
    x1 = 2.5352
>> x2=(-b-d^0.5)/(2*a)
    x2 = 0.13148
>> if (a>5)
    z=6
    else
    z=3
    end
    z = 3
>> for x=1:4
    z=x*x;
    z=x*x
    end
    z = 1
    z = 4
    z = 9
    z = 16
>> for x=1:0.5:4
    z=x*x
    end
    z = 1
    z = 2.2500
    z = 4
    z = 6.2500
    z = 9
    z = 12.250
    z = 16
>> clc
>> round(4.3)
    ans = 4
>> ceil(4.3)
    ans = 5
>> floor(4.3)
    ans = 4
>> fix(4.3)
    ans = 4
>> round(-3.7)
    ans = -4
>> ceil(3.00001)
    ans = 4
>> ceil(-3.00001)
    ans = -3
>> floor(3.99999)
    ans = 3
>> fix(3.999)
    ans = 3
>> fix(-3.999)
    ans = -3
>> 14/3
    ans = 4.6667
>> floor(14/3)
    ans = 4
>> fix(14/3)
    ans = 4
>> round(3.5673,2)
    error
>> a=3.5673
    a = 3.5673
```

```
>> round(a)
ans = 4
>> round(a*100)
ans = 357
>> round(a*100)/100
ans = 3.5700
>> format long
>> pi
ans = 3.141592653589793
>> 2/3
ans = 6.666666666666666e-001
>> format short
>> 2/3
ans = 0.66667
>> pi
ans = 3.1416
>> format rat
>> pi
ans = 355/113
>> format
>> 2/3
ans = 0.66667
>> exp(3)
ans = 20.086
>> exp(1)
ans = 2.7183
>> clc
```

>> %vectores

```
>> x=[3,4,1,7,5]
x =
    3    4    1    7    5
>> x(2)+x(3)
ans = 5
>> x(3)=2
x =
    3    4    2    7    5
>> sum(x)
ans = 21
>> prod(x)
ans = 840
>> max(x)
ans = 7
>> min(x)
ans = 2
>> mean(x)
ans = 4.2000
>> cumsum(x)
ans =
    3    7    9   16   21
>> y=1:5
y =
    1    2    3    4    5
>> y=1:0.8:5
y =
    1.0000    1.8000    2.6000    3.4000    4.2000    5.0000
>> y=1:3:5
y =
    1    4
```

```

>> x=1:0.01:1000;
>> whos
    Variables in the current scope:
    Attr Name      Size      Bytes  Class
    ==== =====
        a         1x1         8  double
       ans        1x5        40  double
        b         1x1         8  double
        c         1x1         8  double
        d         1x1         8  double
        x        1x99901      24  double
       x1         1x1         8  double
       x2         1x1         8  double
        y         1x2        24  double
        z         1x1         8  double

    Total is 99915 elements using 144 bytes
>> clc
>> a=4:-1:2
    a =
         4     3     2
>> b=1:3
    b =
         1     2     3
>> a*b
    error: operator *: nonconformant arguments (op1 is 1x3, op2 is 1x3)
>> b'
    ans =
         1
         2
         3
>> a*b'
    ans = 16
>> a*a
    error: operator *: nonconformant arguments (op1 is 1x3, op2 is 1x3)
>> a
    a =
         4     3     2
>> b
    b =
         1     2     3
>> a.*b
    ans =
         4     6     6
>> a.^b
    ans =
         4     9     8
>> %graficar la parabola y=2x^2-3*x
>> x=-2:0.01:2;
>> y=2*x.*x-3*x;
>> plot(x,y)
>> diary off

```