```
******************
Ejemplos Bisección
******************

>> f=inline ('x+exp(x)')

f =

     Inline function:
     f(x) = x+exp(x)

>> f(-1)

ans =

   -0.6321

>> f(0)

ans =

     1

>> biseccion(f,-1,0,0.001)
Método de la bisección
n=1
c=-0.5
f(c)=0.10653
n=2
c=-0.75
f(c)=-0.27763
n=3
c=-0.625
f(c)=-0.089739
n=4
c=-0.5625
f(c)=0.0072828
n=5
c=-0.59375
f(c)=-0.041498
n=6
c=-0.57813
f(c)=-0.017176
n=7
c=-0.57031
f(c)=-0.0049638
n=8
c=-0.56641
f(c)=0.0011552
n=9
c=-0.56836
f(c)=-0.0019054

x =

   -0.5684


ans =    -0.5684
```

```
******************
Ejemplo Punto Fijo
******************


1.


%Definición de la function a iterar


>> g= inline ('5/sqrt(x)')


g =

   Inline function:
   g(x) = 5/sqrt(x)


>> pfijo_error(g,2,2.5,3.5,0.005,0.7)

n =

    20


p =

  Columns 1 through 7

2.000000000000000   3.535533905932737   2.659147948472494
3.066187817586520   2.855424144460250   2.958929996770189
2.906716387015645

  Columns 8 through 14

2.932706993486403   2.919682769802622   2.926187635433159
2.922933393080258   2.924560061620575   2.923746614222860
2.924153309635894

  Columns 15 through 20

2.923949954858413   2.924051630479351   2.924000792226939
2.924026211242659   2.924013501707177   2.924019856468012


ans =

    20
```

```
%Definición de la function a iterar

>> g= inline ('x- (x^3-x-1)/(3*x^2-1)')

g =

     Inline function:
     g(x) = x- (x^3-x-1)/(3*x^2-1)



>> pfijo_error(g,1.3,1.25,1.5,0.001,0.59)

n =

    14


p =

Columns 1 through 7

1.300000000000000   1.325307125307125   1.324718280461173
1.324717957244843   1.324717957244746   1.324717957244746
1.324717957244746


Columns 8 through 14

1.324717957244746   1.324717957244746   1.324717957244746
1.324717957244746   1.324717957244746   1.324717957244746
1.324717957244746


ans =

    14
```