1. Ejerccio 1

```
#include <iostream>
#include <cmath>

using namespace std;

int cifras_sig(float xs, float x){
    float v = (abs(x - xs)) / abs(x);
    int i = 0;
    for(; v < 0.5 * pow(10,-1*i); i++)
    {
        cout<<v<"<"<<0.5 * pow(10,-1*i)<<endl;
    }
    return i - 1;
}

int main(){
    float xs;
    float x;
    cout<"Ingrese xs->"<<endl;
    cin>>xs;
    cout<<"Ingrese x->"<<endl;
    cin>x;
    cout<<cifras_sig(xs,x)<<endl;
}</pre>
```

2. Ejercicio 2

```
function f()  \begin{array}{l} \text{x= linspace} (1-2*10^{\circ}-8,1+2*10^{\circ}-8,450); \\ \text{y= x.} ? 7-7*x.^{\circ} 6+21*x.^{\circ} 5-35*x.^{\circ} 4+35*x.^{\circ} 3-21*x.^{\circ} 2+7*x-1; \\ \text{plot(y);} \\ \text{grid on} \end{array}  end
```

3. Ejercicio 3

```
function terminos(n)
    res = [];
    err = [];
    for i = 2:n + 1
        if(i == 2)
            res(i - 1) = 2;
        else
            res(i - 1) = (2^(i-1/2)) * sqrt(1 - sqrt(1 - (4^(1-i)) * (res(i-2)^2)));
        end
            err(i - 1) = abs((pi - res(i-1)) / res(i-1));
    end
    [res' err']
    grid on
    plot(res,err)
end
```