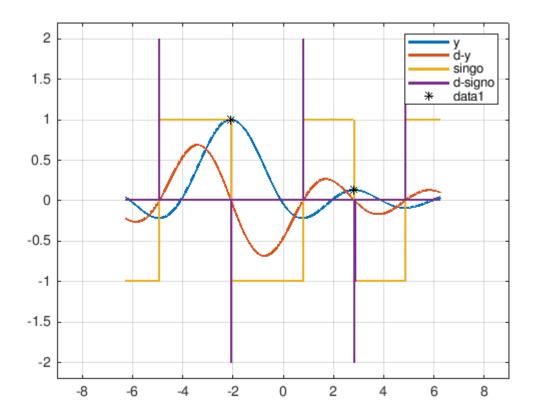
```
clc;clear;
 dx=.01; % incrementos
 x=-2*pi:dx:2*pi %rango x
 x = 1 \times 1257
    -6.2832
           -6.2732 -6.2632 -6.2532 -6.2432 -6.2332 -6.2232 -6.2132 · · ·
Funciones y Derivadas
 y1=sinc(x/2+pi/3)
 y1 = 1 \times 1257
                      0.0400
                               0.0378
                                                0.0333
     0.0444
             0.0422
                                        0.0355
                                                         0.0310
                                                                  0.0287 ...
 yld=diff(yl)%resta el primer valor de yl con respecto al segunda valor de yl
 y1d = 1 \times 1256
    -0.0022 -0.0022 -0.0022 -0.0023
                                               -0.0023 -0.0023 -0.0023 ...
 dy1=y1d/dx
 dy1 = 1 \times 1256
    -0.2188 -0.2209 -0.2229
                             -0.2249 -0.2269
                                               -0.2288
                                                       -0.2307 -0.2325 •••
 sd1=sign(dy1)%indica el signo de los valores de dy1
 sd1 = 1 \times 1256
                                                                    -1 ...
    -1 -1
                               -1 -1
                                                              -1
               -1
                    -1
                         -1
                                        -1
                                              -1
                                                    -1
                                                         -1
 dsd1=diff(sd1)
 dsd1 = 1 \times 1255
                                                                    0 . . .
     0 0
                          0
                               0
                                     0
                                          0
                                               0
                                                     0
                                                          0 0
                0
                     0
 plot(x,y1,'LineWidth',2); hold on;
 plot(x(2:end),dy1,'LineWidth',2);
 plot(x(2:end),sd1,'LineWidth',2);
 plot(x(2:end-1),dsd1,'LineWidth',2);
 grid; axis([ -9,9,-2.2,2.2]);
 legend('y','d-y','singo','d-signo')
 i max=find(dsd1==-2) %posicion en dsd1 es iqual a -2, punto diferente
 i_max = 1x2
    419
        911
 plot(x(i_max+1),y1(i_max+1),'k*')
```



%YEIMY PAOLA AGUIRRE ESCOBAR
%20161167046