

```

f=@(x) x./ (x.^2+4);

It = traprl(f,1,3,154)

Is = simplr1(f,1,3,10)

I=0.5*(log(13)-log(5)) %fórmula del valor exacto

abs(I-It) % error (fórmula del trapezio compuesta)

abs(I-Is) % error (fórmula de simpson compuesta)

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

g=@(t) 1/8*(t+1).^2.*sin(2./(t+1))

[quad1, raices, nodos, coefs] = GaussLegendre( g, -1, 1, 3);

[quad2, raices, nodos, coefs] = GaussLegendre( g, -1, 1, 4);

quad1, quad2

```