```
disp('ASKHSH 1')
ekf1 = '1./sqrt(1+x.^4)';
f1 = inline(ekf1);
                                                             If = olok1
ezplot(f1, [-2, 2]);
olok1 = quad(f1) -2, 2);
fprintf('QUAD: To oloklhrwma ths synarthshs %s einai %12.8f
\n',ekf1,olok1);
                                                    J Straplici vabagración
 disp('ASKHSH 2')
 h = inline('1./((x-0.3).^2+0.01) + 1./((x-0.9).^2+0.4)');
 ezplot(h,[0,10]); title('1/((x-0.3)^2+0.01) + 1/((x-0.9)^2+0.4)');
 axis tight;
 x = [0:0.5:10];
                                                      Opifute ca outria (21)
 y = h(x);
  olokt = trapz(x,y);
 fprintf('TRAPZ: To oloklhrwma ths h sto [0, 10] einai %12.8f
 \n',olokt);
                               > olokt = 0 20 khiputa and M. Coanefu to 11
 hold on;
  plot(x,y, '*-r')
                                                          h=? = Q(f)
  disp('ASKHSH 2a')
 h = inline('1./((x-0.3).^2+0.01) + 1./((x-0.9).^2+0.4)');
 ezplot(h,[0,10]); title('1/((x-0.3)^2+0.01) + 1/((x-0.9)^2+0.4)');
 [olokq, nq] = quad(h, 0, 10, 5e-5)
 for n=11:10:1001 -> [11, 21, 31, 41, ...
 x = iinspace(0, 10, n);
 oloktra(ii) = trapz(x,y);
 fprintf('TRAPEZIO: To oloklhrwma the h sto [0, 10] einai %12.8f
                                                            Dixterion Xo, xy > QA
 \n',oloktra(ii));
 error(ii) = abs(oloktra(ii)-olokq)
  ii = ii+1:
                                                                          {X, X2n(→Q(#)
  end
 figure(1)
 subplot(2,1,1)
 plot([11:10:1001], oloktra)
                                                        xlabel('# shmeiwn diakritopoihshs')
 ylabel('oloklhrwma me trapz')
 subplot(2,1,2)
 plot([11:10:1001], error)
 xlabel('# shmeiwn diakritopoihshs')
 ylabel('sfalma oloklhrwmatos me trapz')
                                                         > Odoktnewlex QT(h)
                                                         > Logita Joh-Q-(W)
                                                              |error(h) = c.h
```



