clc

clear

syms s t;

Hs=sym('(s+2)/(s^2+4\*s+3)');

hs=ilaplace(Hs);

subplot(2,1,1)

ezplot(hs,[0,10]);hold on;

vos=Hs\*(1/s);

vo=ilaplace(vos);

vo=vpa(vo,4);

subplot(2,1,2)

ezplot(vo,[0,10]);hold on;

syms s t;

Hs=sym('(s+2)/(s^2+4\*s+3)');

hs=ilaplace(Hs);

vs1=laplace(cos(20\*t));

vos1=Hs\*vs1;

vo1=ilaplace(vos1);

vs2=laplace(exp(-t));

vos2=Hs\*vs2;

vo2=ilaplace(vos2);

hs=vpa(hs,4);

vo1=vpa(vo1,4);

vo2=vpa(vo2,4);

subplot(2,1,1)

ezplot(vo1,[0,5]);

% axis([0,5,0,1]);

subplot(2,1,2)

ezplot(vo2,[0,5])

% axis([0,5,0,1]);

clc

clear

b=[2,0,1,-3,1,4];

a=[5,2,-1,-3,5,2,-4,2,-1];

zs=roots(b);

ps=roots(a);

plot(real(zs),imag(zs),'bo',real(ps),imag(ps),'rx','markersize',12);

grid;

legend('Áãµã','¼«µã');



