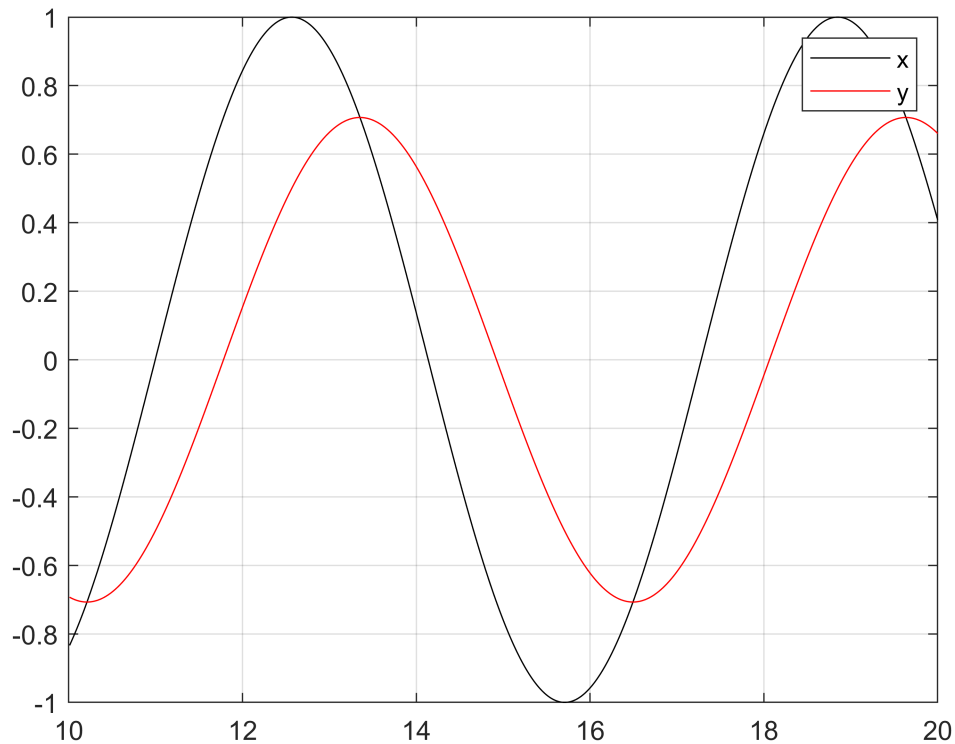


```

t=linspace(0,20,1000);
A=[1,1];%因为  $H(s)=1/(1+RCs)$ ,  $RC=1$ ,
B=1;%所以根据公式能知晓  $A=[1,1]$ ,  $B=1$ ;
x=cos(t);
y=lsim(B,A,x,t)';
plot(t(501:1000),x(501:1000),'k');grid;hold on
plot(t(501:1000),y(501:1000),'r');legend('x','y');

```



%according to the figure,we can know that the amplitude is lower,the phase
 %delay,
 %according to the formula $Y(s)=H(s)X(s)$,it is known that
 % $Y(s)=(1-jw)/(1+w^2)X(s)$,the amplitude of $Y(s)$ is lower than $X(s)$,the phase
 %of $Y(s)$ is different to the phase of $X(s)$