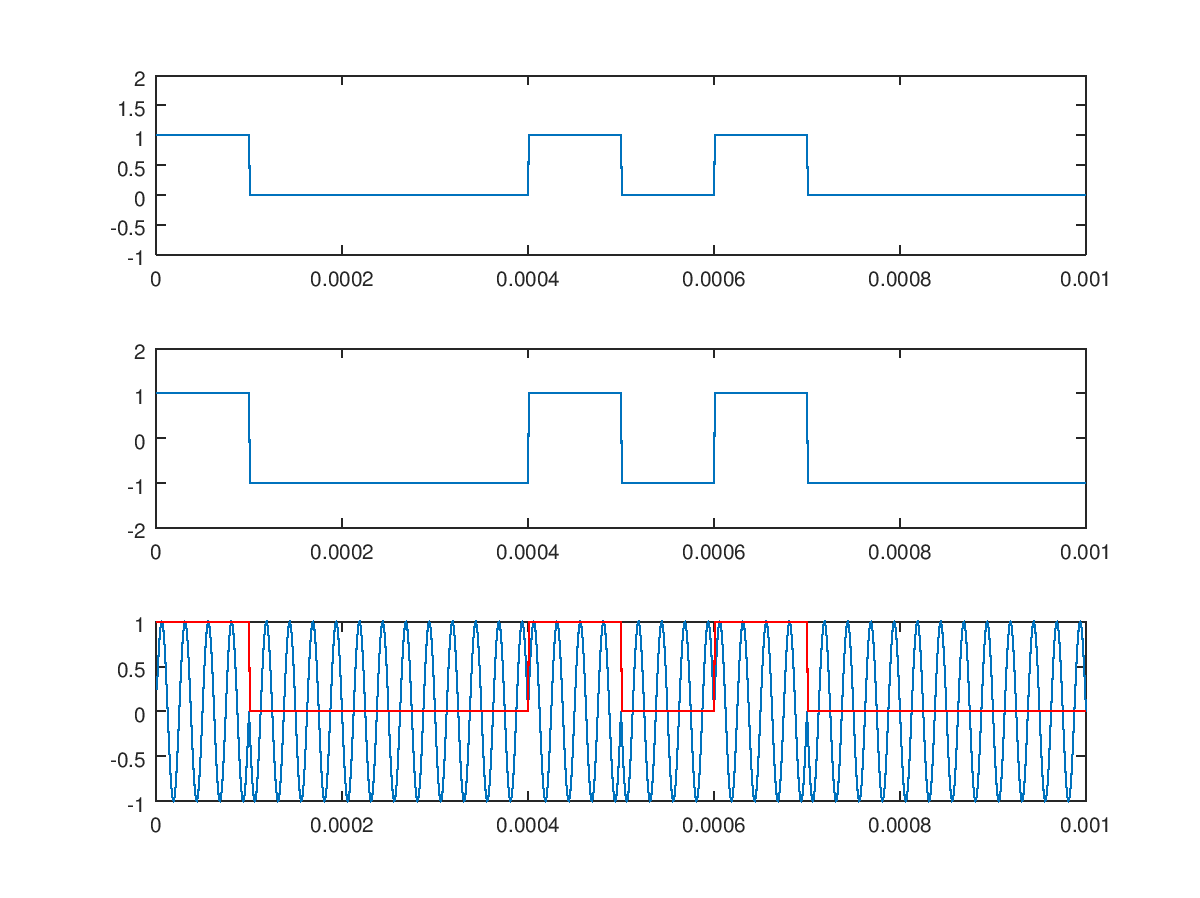
PSK m file practice

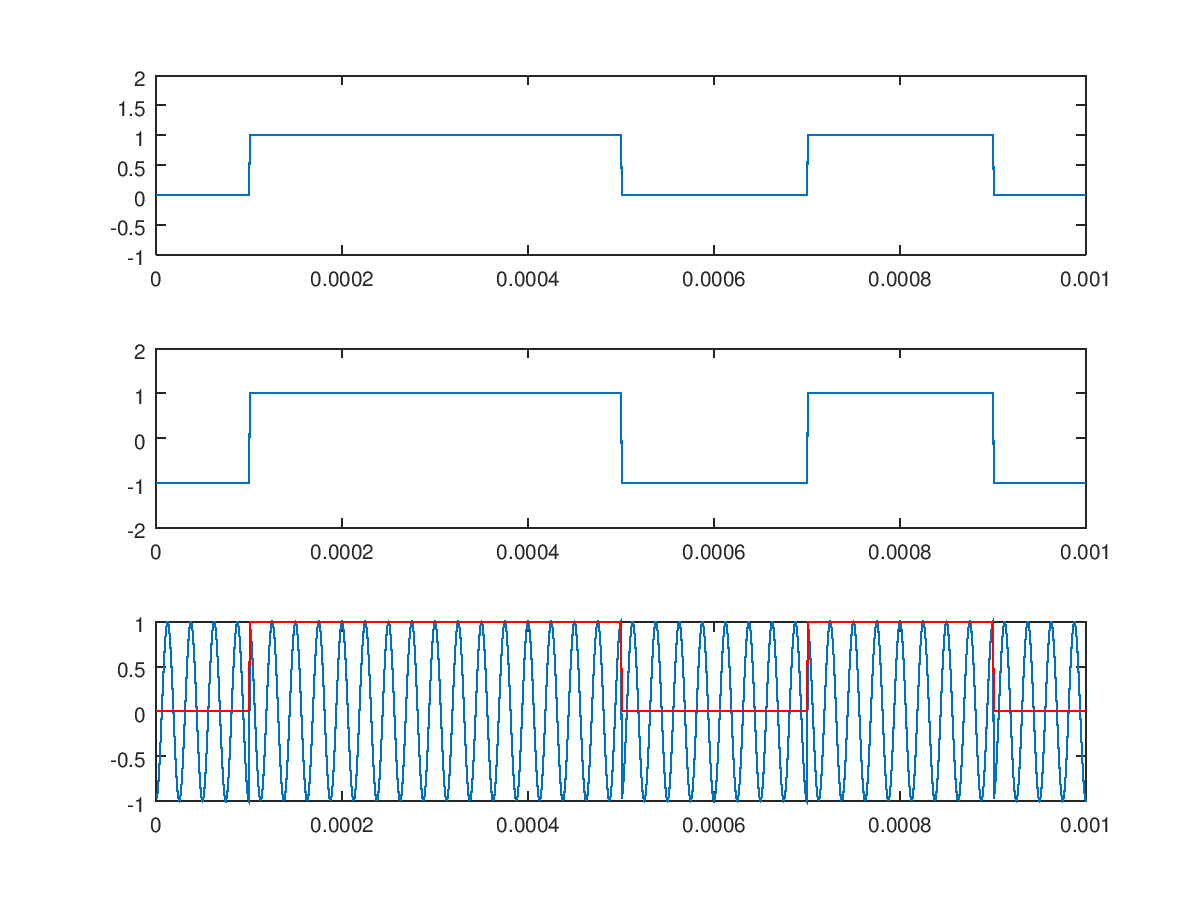
fm\_fc\_time=4

ca=sin(2\*pi\*fc\*t)



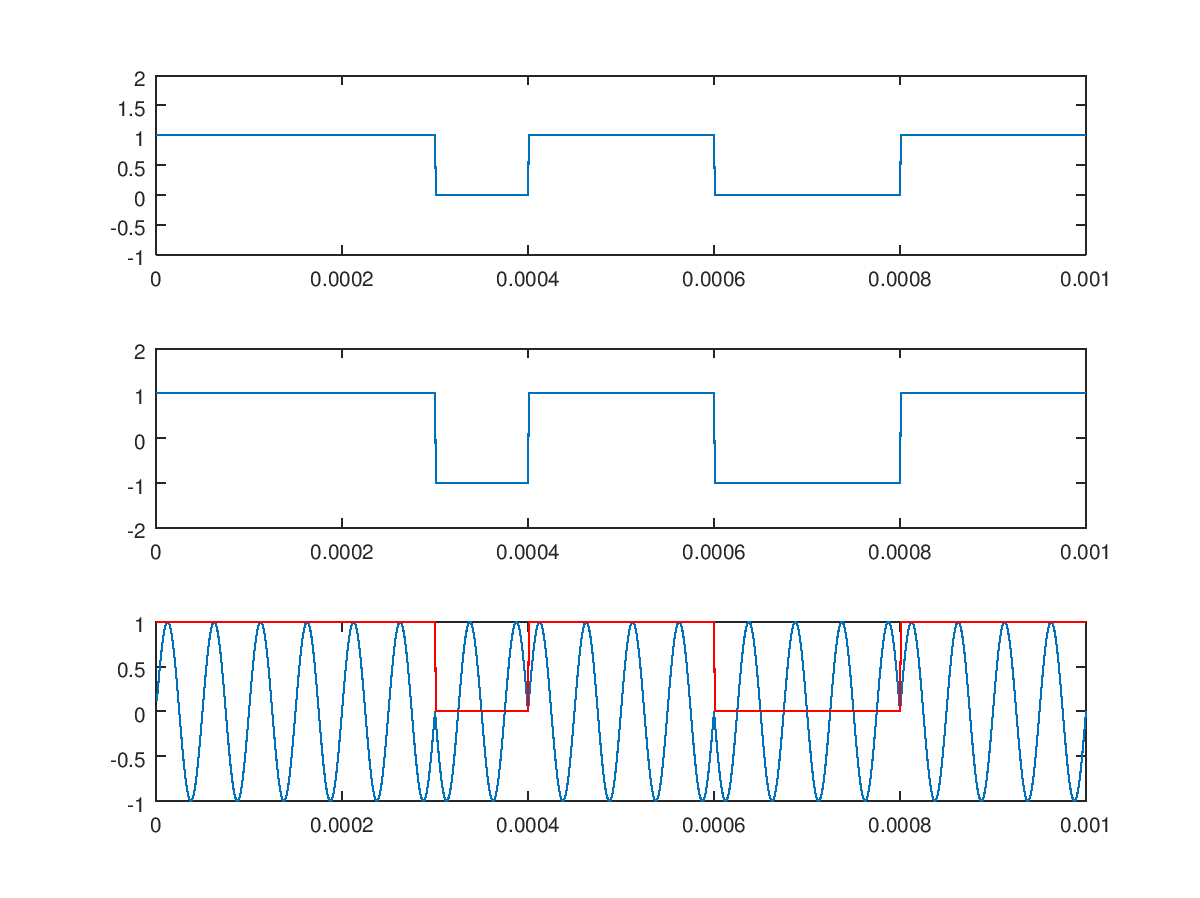
fm\_fc\_time=4

ca=cos(2\*pi\*fc\*t)



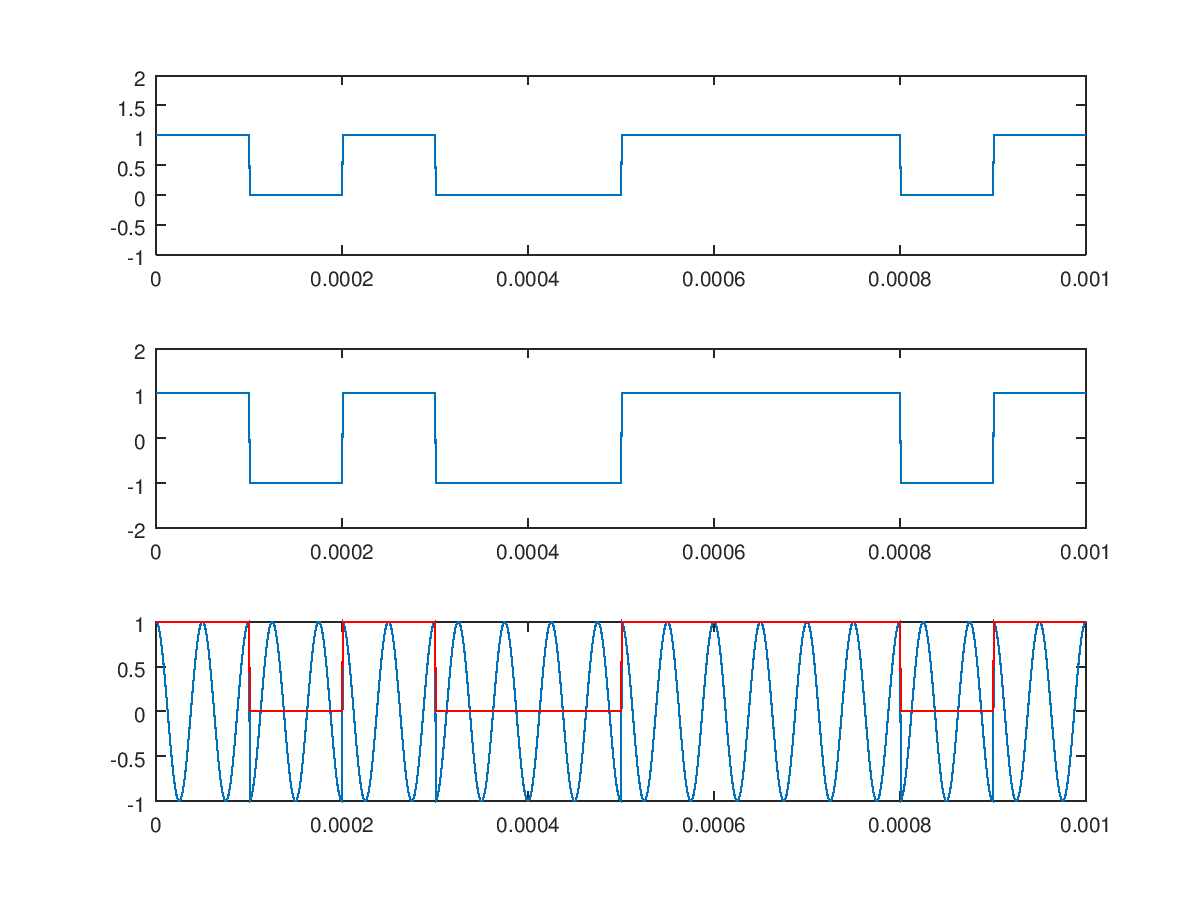
fm\_fc\_time=2

ca=sin(2\*pi\*fc\*t)



fm\_fc\_time=2

ca=cos(2\*pi\*fc\*t)



% CH05\_07

% Phase Shift Keying (PSK)

clear all;

close all;

fm=10^4;

fm\_fc\_time=2;%方坡內載波

fc=fm\_fc\_time\*fm;

delta\_f=2;

num\_bit=10;

resol\_index=100;

t\_step=1/(resol\_index\*fm);

t=t\_step:t\_step:num\_bit\*(1/fm);

bit\_stream=round(rand(1,num\_bit));

ca=cos(2\*pi\*fc\*t);%sin跟cos

linecode=bit\_stream'\*ones(1,1/(fm\*t\_step));

linecode\_res=[];

for i=1:num\_bit

linecode\_res=[linecode\_res linecode(i,:)];

end

bip\_linecode=linecode\_res\*2-1;

v=ca.\*bip\_linecode;

subplot(3,1,1);

plot(t,linecode\_res);

ylim([-1 2]);

subplot(3,1,2);

plot(t,bip\_linecode);

ylim([-2 2]);

subplot(3,1,3);

plot(t,v)

hold on;

plot(t,linecode\_res,'r')