

```

clc;
EbNo1=0:1:10;
EbNo=EbNo1/10;
%find the Pe values from the eqn
for i=1:11
    EbNomag(1,i)=10^EbNo(1,i);
    x=sqrt(2*EbNomag(1,i));
    %x=sqrt(2*EbNo1(i));
    q=qfunc(x);
    z(1,i)=2*q*(1-(q/2));
end
display(z);
plot(EbNo1,(z));
hold on
%qpsk coded from simulink
Error=[0.13 0 0 0 0 0 0 0 0 0];
plot(EbNo1,Error);
hold off
legend('uncoded','coded');
title('Eb/No VS error rate');
xlabel('Eb/No in dB');
ylabel('Error rate');

```

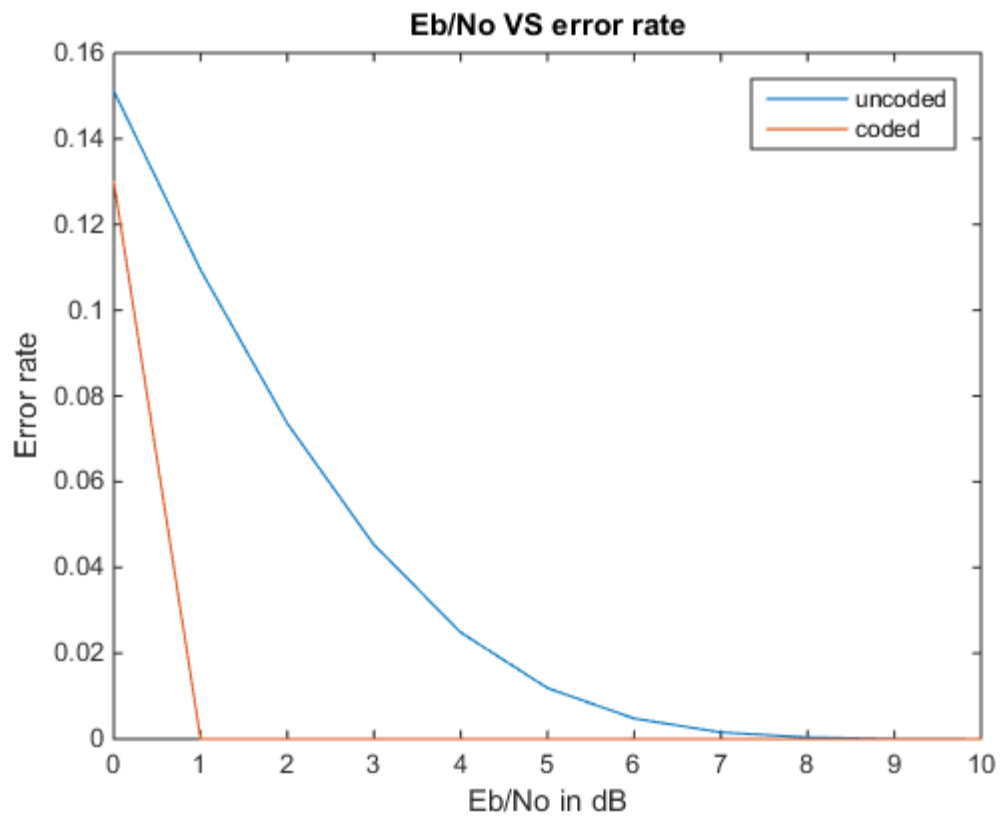
z =

Columns 1 through 7

0.1511	0.1094	0.0736	0.0452	0.0248	0.0119	0.0048
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Columns 8 through 11

0.0015	0.0004	0.0001	0.0000
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Published with MATLAB® R2014b