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% 8-point Moving Average Frequency Response
% Exercise 5.3
clc, clear all, clf
w_hat=-pi:pi/500:pi;
H_8=freqz(ones(1,8)/8,1,w_hat);
h_8zeros=(1/8)*[2*pi,4*pi,6*pi]
% h_8zeros = 0.7854    1.5708    2.3562
figure(1)
subplot(211)
plot(w_hat,abs(H_8))
grid;axis([-pi pi 0 1])
ylabel('Magnitude Response, M=8')
subplot(212)
plot(w_hat,angle(H_8))
grid;axis([-pi pi -pi pi]);
ylabel('Phase Response, M=8')
xlabel('hat(\omega)')

```

