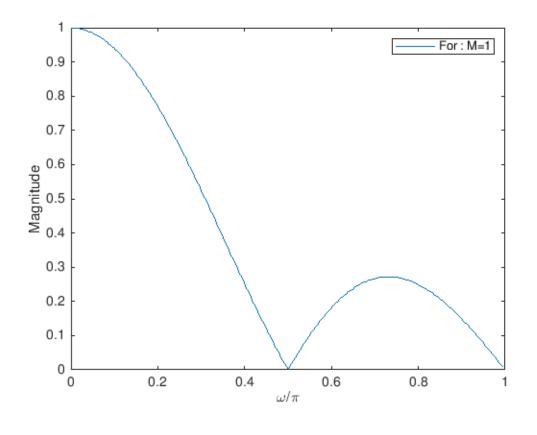
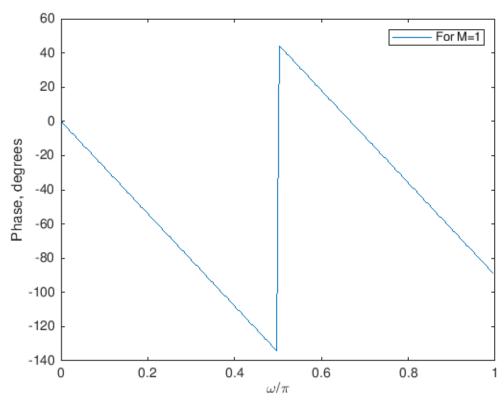
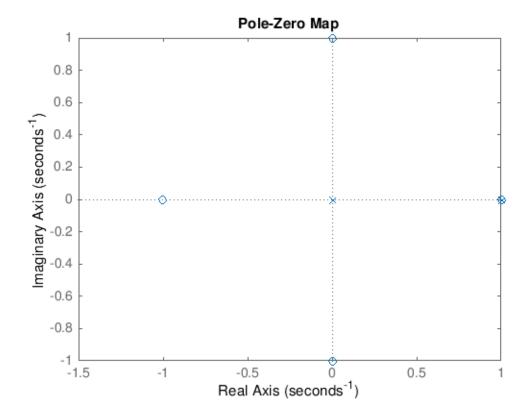
```
h1 = ones(1,4)/4;
[H1, w] = freqz(h1, 1, 256);
m1 = abs(H1);
plot(w/pi, m1);
ylabel("Magnitude");xlabel("\omega/\pi");
legend("For : M=1");
figure;
ph1 = angle(H1)*180/pi;
plot(w/pi, ph1);
ylabel("Phase, degrees");xlabel("\omega/\pi");
legend("For M=1");
h = (tf([1 \ 0 \ 0 \ 0 \ -1], \ 4*[1, \ -1,0,0,0]))
[z, p, k] = tf2zp([1 0 0 0 -1], 4*[1, -1,0,0,0])
figure;pzplot(h);
x1 = [2,3,1,2,5,3,0,0];
X1 = fft(x1)
x2 = [1,4,6,8,1,2,3,0];
X2 = fft(x2)
X3 = X1.*X2
x3 = ifft(X3)
h =
     s^4 - 1
  4 s^4 - 4 s^3
Continuous-time transfer function.
z =
  -1.0000 + 0.0000i
   0.0000 + 1.0000i
   0.0000 - 1.0000i
   1.0000 + 0.0000i
p =
     0
     0
     0
     1
k =
```

0.2500

```
X1 =
 Columns 1 through 4
 16.0000 + 0.0000i -4.4142 - 2.4142i 6.0000 - 4.0000i -1.5858 -
 0.4142i
 Columns 5 through 8
  0.0000 + 0.0000i -1.5858 + 0.4142i 6.0000 + 4.0000i -4.4142 +
 2.4142i
X2 =
 Columns 1 through 4
 25.0000 + 0.0000i -4.2426 -10.0711i -7.0000 + 2.0000i 4.2426 -
 4.0711i
 Columns 5 through 8
 -3.0000 + 0.0000i 4.2426 + 4.0711i -7.0000 - 2.0000i -4.2426
+10.0711i
X3 =
  1.0e+02 *
 Columns 1 through 4
  4.0000 + 0.0000i -0.0559 + 0.5470i -0.3400 + 0.4000i -0.0841 +
 0.0470i
 Columns 5 through 8
  0.0000 + 0.0000i -0.0841 - 0.0470i -0.3400 - 0.4000i -0.0559 -
 0.5470i
x3 =
   38 30 46 49 45 50 71 71
```







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