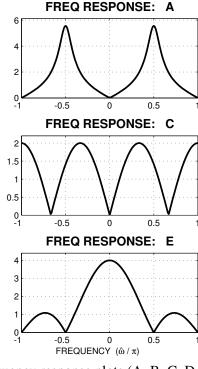
PROBLEM:



FREQ RESPONSE: B

10

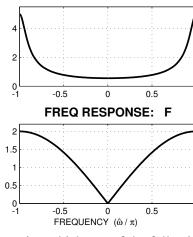
5

0
-0.5

0
0.5

1

FREQ RESPONSE: D



For each of the frequency response plots (A, B, C, D, E, F), determine which one of the following systems (specified by either an H(z), a difference equation, or a MATLAB statement) matches the frequency response (magnitude only). There is only ONE correct match per graph. NOTE: The discrete-time frequency axis is **normalized**; it is $\hat{\omega}/\pi$.

$$S_2$$
: H=freqz([1,0,1],[1,0,0.64],omega)
 S_3 : $H(z) = \sum_{k=0}^{3} z^{-k}$

 $S_4: H(z) = \frac{1+z^{-2}}{1-0.8z^{-1}}$

 S_1 :

$$S_6: H(z) = \frac{1 - z^{-2}}{1 + 0.64z^{-2}}$$

 $S_7: y[n] = x[n] - x[n - 1]$

 S_8 : $H(z) = 1 - z^{-3}$

 S_5 : $H(z) = 1 + 0.64z^{-2}$

Mark your answer in the following table:

y[n] = -0.8y[n-1] + x[n]