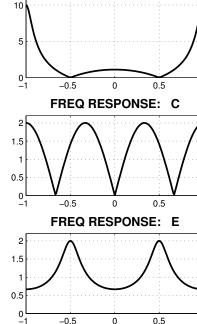
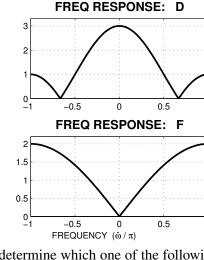
PROBLEM: FREQ RESPONSE: A



FREQ RESPONSE: B



 $S_1: H(z) = \frac{1 - z^{-2}}{1 + 0.64z^{-2}}$ S_5 : y[n] = x[n] - x[n-1] S_2 : $H(z) = 1 + z^{-1} + z^{-2}$ S_3 : $H(z) = \frac{1 + z^{-1}}{1 - 0.9z^{-1}}$

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) or a difference equation) matches the frequency response (magnitude only).

FREQUENCY (ω/π)

NOTE: the frequency axis is **normalized**; it is $\hat{\omega}/\pi$.

 S_6 : y[n] = -0.8y[n-1] + x[n] + x[n-2] S_7 : y[n] = -0.5y[n-2] + x[n-1]

 S_8 : y[n] = 0.8y[n-1] + 0.5x[n]

 $S_4: H(z) = z^{-1} - z^{-4}$

Mark your answers in the following table:			
FREQUENCY RESPONSE	SYSTEM $(S_{\#})$	FREQUENCY RESPONSE	SYSTEM ($S_{\#}$)
A		В	
С		D	
E		F	