## PROBLEM:

- For each of the following systems (specified by either an H(z) or a difference equation), determine
- all the poles and zeros and make a pole-zero plot.

  - (a)  $S_a$ : v[n] = x[n] + x[n-4]

(b)  $S_b$ :  $H(z) = 1 + z^{-1} + z^{-2} + z^{-3} + z^{-4}$ 

(c)  $S_c$ : y[n] = -0.96y[n-2] - 1.6x[n-1] + x[n-2]