



$$H(z) = A_2(z) = 1 + 2z^{-1} + z^{-2}$$

7.16 (a) Determine the zeros and sketch the zero pattern for the FIR lattice filter with parameters

$$K_1 = \frac{1}{2}, \qquad K_2 = -\frac{1}{3}, \qquad K_3 = 1$$

- (b) The same as in part (a) but with $K_3 = -1$.
- (c) You should have found that all the zeros lie exactly on the unit circle. Can this result be generalized? How?
- (d) Sketch the phase response of the filters in parts (a) and (b). What did you notice? Can this result be generalized? How?