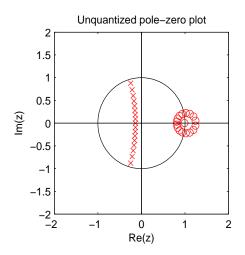
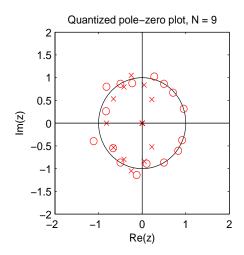
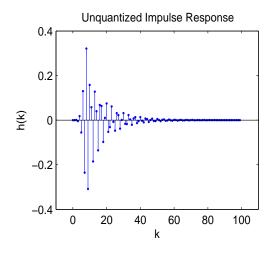
- 5.36 Use the GUI module g-filters and select an IIR highpass filter. Use the default parameter values, but adjust the number of bits of precision N to highest value that still makes the quantized filter go unstable.
  - (a) Plot the unstable pole-zero plot
  - (b) Increase N by one so the quantized filter becomes stable. Then plot the impulse response.

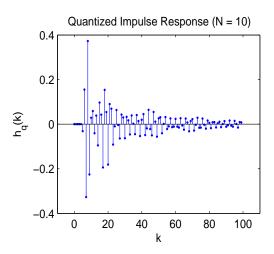
## Solution





(a) Unstable Pole-Zero Plot





(b) Stable Impulse Response