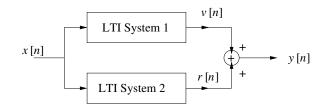
PROBLEM:

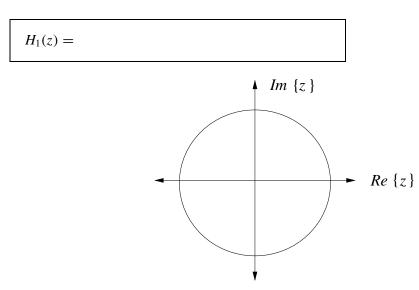
Consider the parallel form LTI system depicted below.



System 1 is defined by the difference equation v[n] = x[n] - x[n-7].

System 2 is defined by the system function $H_2(z) = -1 + \frac{1}{2}z^{-3} + z^{-4}$.

(a) Determine the system function $H_1(z)$ associated with System 1 and plot the zeros of $H_1(z)$.



(b) Determine the impulse response of the overall parallel form system. That is, find h[n] such that y[n] = x[n] * h[n].

h[n] =				
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