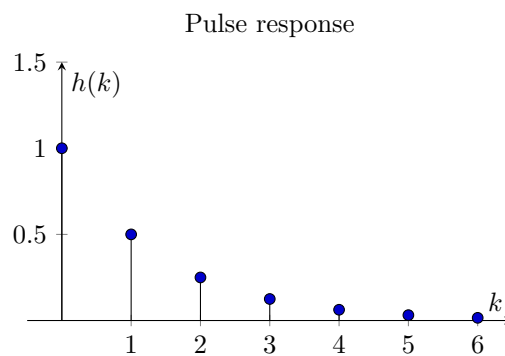
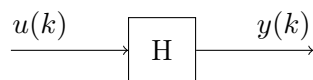


Poles and geometric sequences exercise

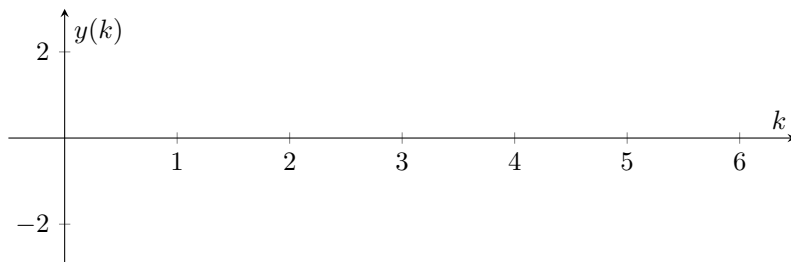
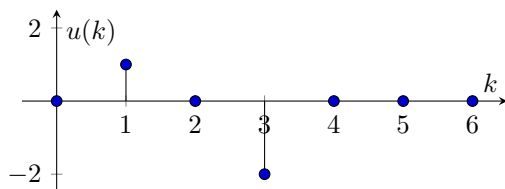
Kjartan Halvorsen

August 29, 2018

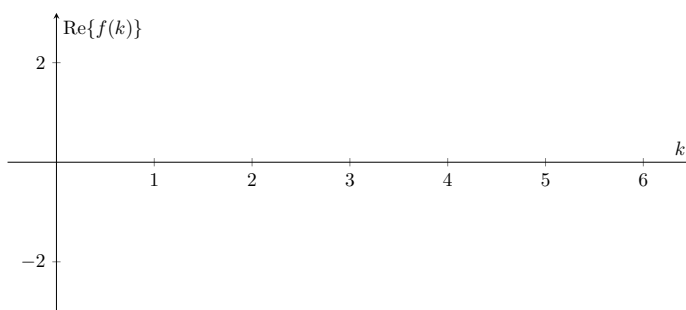
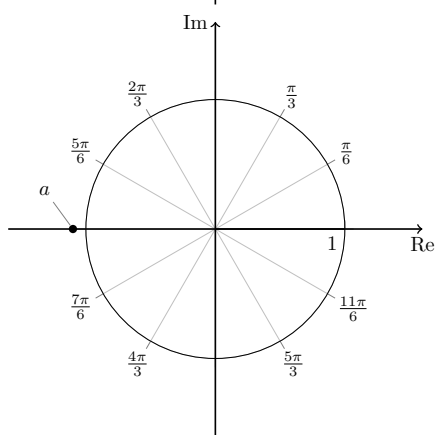
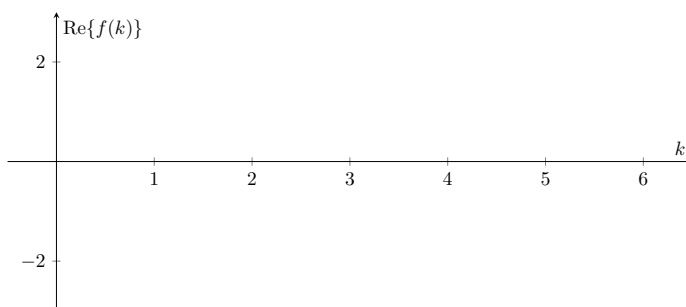
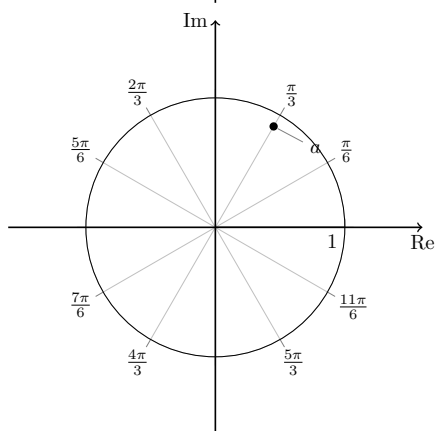
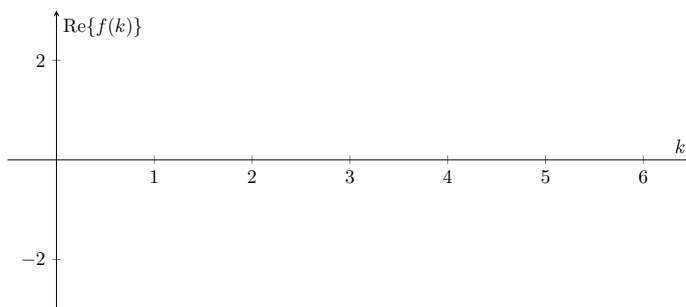
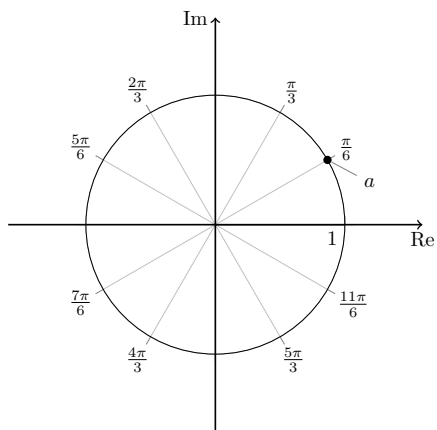
Pulse response



Plot the response of the system to the input signal below.



Plot the sequence $f(k) = a^k$ for $k = 1, 2, 3, \dots$



From continuous-time poles to discrete-time poles

