Assignment4 submissition 1

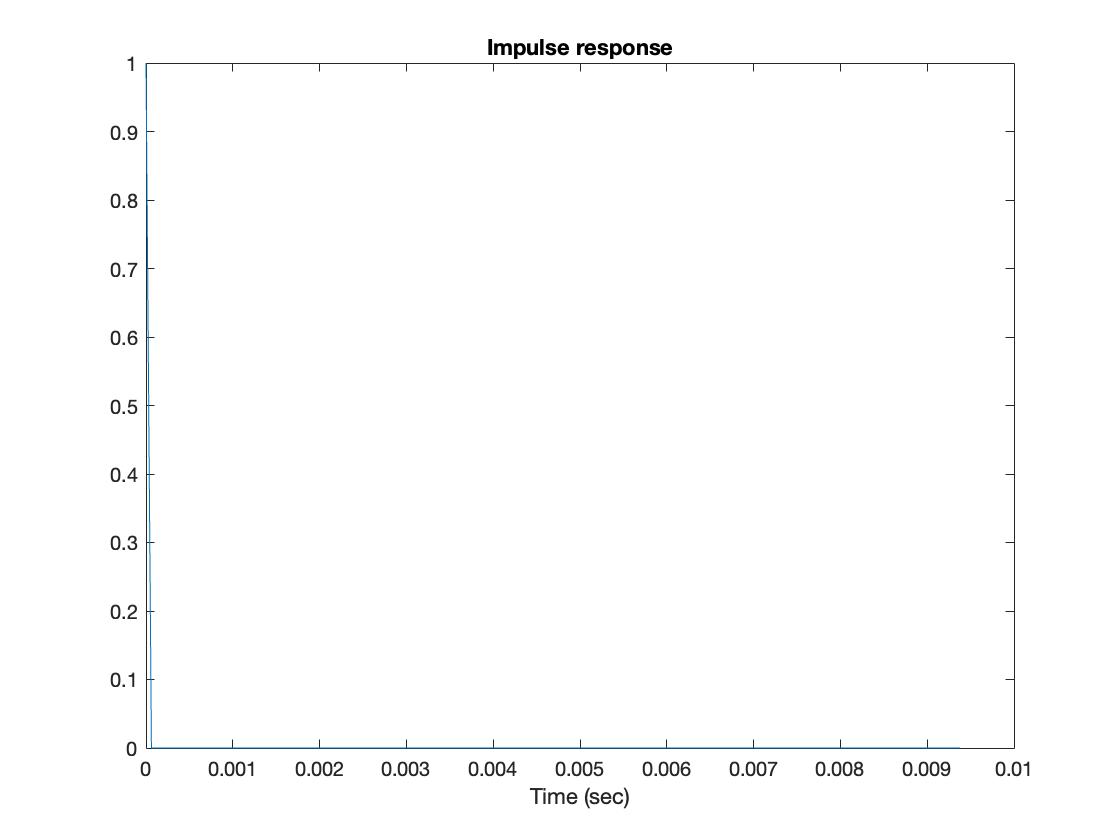
1. For the filter implemented in the demo program, what is the difference equation, transfer function, and impulse response? Use Matlab to plot the pole-zero diagram of the filter

Difference equation y(n) = x(n) + 0.8 \* x(n - 800)

Transfer function Y(z) / X(z) = 1 + 0.8 \* z ^ (-800)

A picture containing graphical user interface

Description automatically generated



Diagram

Description automatically generated with low confidence