PROBLEM:

Consider the following cascade system:

$$\begin{array}{c|c}
x[n] & & & w[n] & & \text{LTI} \\
& & & & \text{System #2} \\
& & & & h_2[n]
\end{array}$$

determine the impulse response of the second filter $h_2[n]$.

 $h_{eq}[n] = \delta[n-3] + \delta[n-5]$