Discrete time complex exponentials
Procrete time complex exponentials  ×[n]=  A e f(won + 0) =  A cos(won + 0) + j A sin(won + 0)
periodie if: Wo = 27m/N, m and N > 0 + div.
Vist Step + Unit Sample
$U[n] = \begin{cases} 1 & n = 0 \\ 0 & n \neq 0 \end{cases}$ $\begin{cases} 0 & \text{otherwise} \end{cases}$
IIR Eq (ARMA)
y[n] = 0.5 y[n-1] + x[n] + x[n-1] L' Clue for IIR!
FIR Eq. m Y[n] = Ehx[n-k] > no feedback
A Tabular Method for convolution
Causal - no init conditions (no n < 0) + no feedback
Nyquist: Fs 22.fmax
Filter Order  A attenuation (add 10%?)  20 (ws - wp)/2TT  pass + stop f.
Attenuation Eq. $A = 20 \log_{10} \left(\frac{y}{x}\right) = 10 \log_{10} \left(\frac{P_y}{P_x}\right)$

mult. by