



0 # Sum & Product of Discrete-Time Sequence :- $\{c_n\} = \{a_n\} + \{b_n\} \longrightarrow c_n = a_n + b_n$ { Cn } = { an } . { bn } -> cn = an . bn ¿ Cm³ = k € am³ -> Cm = k-an Ly multiplication of a sequence by a constant, k is obtained by multiplying each element of the segby that constant. $\begin{cases}
c_n \zeta = k \xi_{\alpha n} \zeta \\
\Rightarrow c_n = k \alpha_n.
\end{cases}$ # Flementary Signals &-Elementary Standard S/g Unit step 1ⁿ Unit parabolic Sinuspidal

Unit step 1ⁿ Real Exponential Complex d

Unit Ramp 1ⁿ Unit impulse 1ⁿ Iⁿ Exponential for 1 Unit Step-function : Step function :- exists only for the positive time

L'as zero for negative time Unit step function: - A step for that has unity magnitude Continous time unit f^n u(t) is defined as: $u(t) = \begin{cases} 1 & \text{for } t \geq 0 \\ 0 & \text{for } t \leq 0 \end{cases}$



