$x(n) = A^{n} \{u(n) - u(n-10)\}$  y(n) = x(n) \* h(n)  $y(n) = \sum_{k=-\infty}^{\infty} x(k) h(n-k) = \sum_{k=-\infty}^{\infty} A^{k} (u(k) - u(k-10)) \beta^{k} u(n-k)$  0 < n < 9 1 < n  $2^{n} A^{k} \beta^{n-k}$ 

0 x >9