

Typically a similar
Most practical systems are causal when range is large

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$$x(n) \rightarrow \boxed{h(n)} \rightarrow y(n)$$

$$y(n) = \sum_{k=-\infty}^{\infty} h(k) x(n-k]$$

a. $h(n) = \delta[n-3]$ $y(n) = 5\delta[n-3] \cdot x[n-6]$

$$x[n] = 5u[n+1] \cdot u[n-3]$$

b. $\boxed{h(n) = \delta[n-3]}$
 $\boxed{y(n) = x[n-6]}$

and $\sum_{k=-\infty}^{\infty} h(k) x(n-k) = 0$

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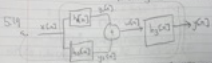
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Tabular Method of Convolution

c. $y(n) = x(n) \cdot u(n-1]$ and $y(n) = x(n) \cdot u(n-1]$

and $y(n) = x(n) \cdot u(n-1]$



$$h_1(n) = \delta(n) \cdot u(n-1] + \delta(n-1] \cdot u(n-1]$$

$$h_2(n) = \delta(n) \cdot u(n-1] + \delta(n-1] \cdot u(n-1]$$

$$h_3(n) = \delta(n) \cdot u(n-1]$$

b. $y(n) = h(n) \cdot x(n)$

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$$h(n) = \delta(n) \cdot u(n-1] + \delta(n-1] \cdot u(n-1] + \delta(n-2] \cdot u(n-2] + \delta(n-3] \cdot u(n-3]$$

$$h(n) = \delta(n) \cdot u(n-1] + \delta(n-1] \cdot u(n-1] + \delta(n-2] \cdot u(n-2] + \delta(n-3] \cdot u(n-3]$$

$$h(n) = \delta(n) \cdot u(n-1] + \delta(n-1] \cdot u(n-1] + \delta(n-2] \cdot u(n-2] + \delta(n-3] \cdot u(n-3]$$

$$h(n) = \delta(n) \cdot u(n-1] + \delta(n-1] \cdot u(n-1] + \delta(n-2] \cdot u(n-2] + \delta(n-3] \cdot u(n-3]$$