# (1A)

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# Finite Impulse Response
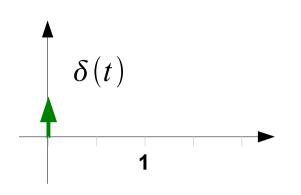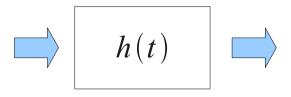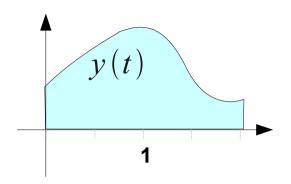
$$\delta(t)$$

Impulse response **h(t)**

$$h(t)$$

$$y(t)$$

1

1

$$y[n] = b_1 x[n-1] - b_2 x[n-2] - \cdots - b_N x[n-N]$$

3

# Infinite Impulse Response

Impulse response **h(t)**

$$\delta(t)$$

$$h(t)$$

$$y(t)$$

1

1

$$y[n] - a_1 y[n-1] - a_2 y[n-2] - \cdots - a_N y[n-N]$$

$$= b_1 x[n-1] - b_2 x[n-2] - \cdots - b_N x[n-N]$$

# References

[1]  http://en.wikipedia.org/
[2]  J.H. McClellan, et al., Signal Processing First, Pearson Prentice Hall, 2003
[3]  R.D. Strum, et al., Discrete Systems and Digital Signal Processing

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11년 5월 2일