

Prelab test:

1. If N_1 is the length of the finite input sequence $x(n)$ and N_2 is the length of the finite impulse response $h(n)$, express the length of the convolved output $y(n)$ in terms of N_1 and N_2 .

- a) N_1
- b) N_2
- c) $N_1 + N_2 - 1$
- d) $N_1 + N_2$

2. Convolution in time domain = _____ in frequency domain.

- a. Addition
- b. Multiplication
- c. Convolution
- d. None of the above

3. If two systems with impulse responses $h_1(n)$ and $h_2(n)$ are connected in series, the output of the system is

- a) $h_1(n) + h_2(n)$
- b) $h_1(n) \times h_2(n)$
- c) $h_1(n) * h_2(n)$
- d) None of the above