Homework Problems:

1. 7.9 (from textbook)

2. 7.10 (from textbook)

3. 7.21 (from textbook)

4. By means of **4-point** DFT's and IDFT, determine the sequence $y(n)$ that results from an FIR filter with impulse response $h(n)$,

$$h(n) = \{1, \quad 2, \quad 3\},$$

to the input sequence $x(n)$,

$$x(n) = \{1, \quad 2, \quad 2, \quad 1\}.$$