EE 451: Homework 2

1. Given the difference equation

$$y(n) = 0.5y(n-1) - 0.7y(n-2) + 0.75x(n) + 0.75x(n-3)$$

    (a) determine the impulse response $h(n)$ using the direct method.

    (b) Use the impulse response function in MATLAB to generate the impulse response $h(n)$ and compare it to the impulse response you got from Part (a).

2. #3.2 (b) and (d) from textbook

3. #3.3 from textbook

4. #3.5 from textbook