

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
Department of Electrical and Computer Engineering

ECE 498MH SIGNAL AND IMAGE ANALYSIS

Homework 5

Fall 2014

Assigned: 3/7/2017

Due: 3/7/2017

Reading: 1-40

Problem 5.1

$$h[n] = \begin{cases} \frac{1}{9} & -4 \leq n \leq 4 \\ 0 & \text{otherwise} \end{cases}$$

Problem 5.2

$$h[n] = -\delta[n - 2] + 3\delta[n - 1] - 3\delta[n] + \delta[n + 1]$$