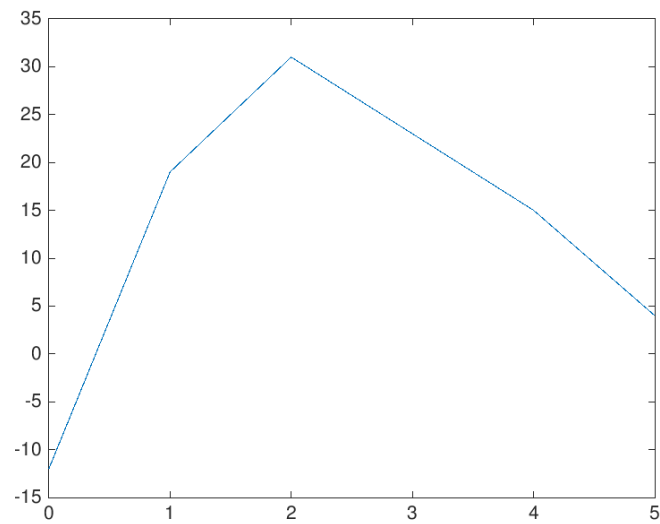
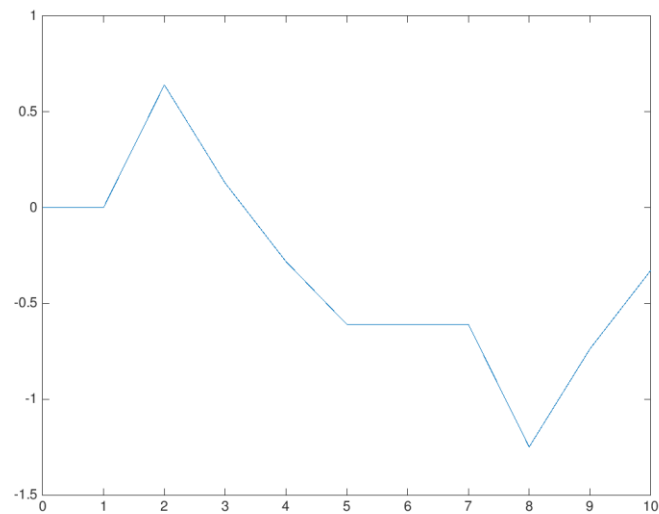


In the name of GOD
signals and systems homework 2
report
Amir H Pirhosseinloo
9531014

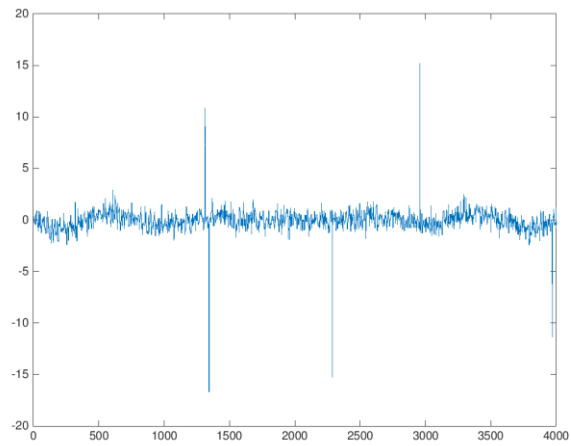
1. Question 1
a. part a



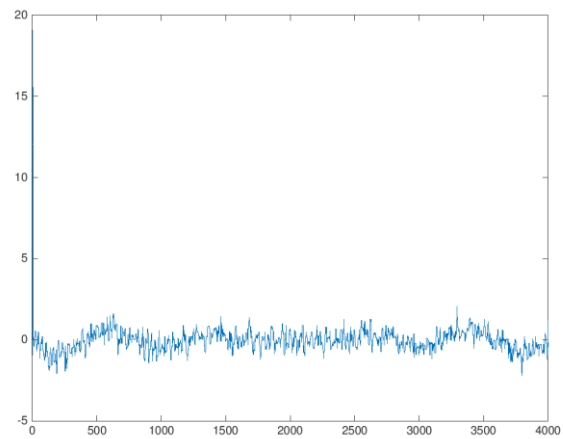
b. part b



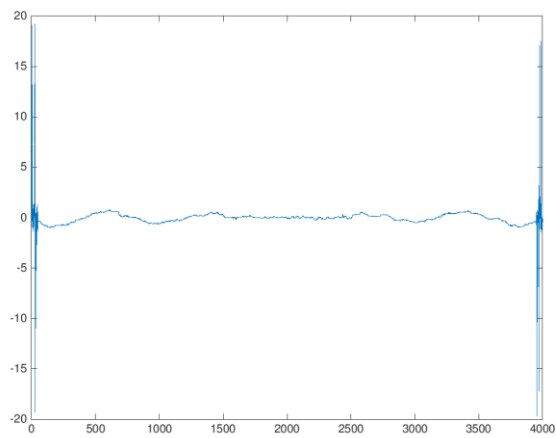
2. Question 2
a. part a
i. median blur $w = 5$



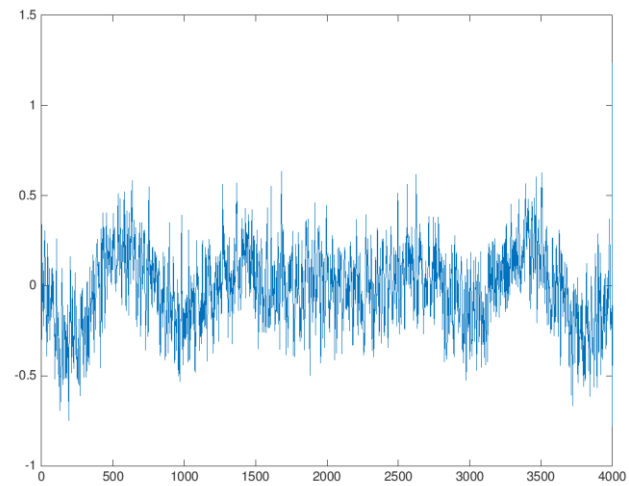
ii. median blur $w = 10$



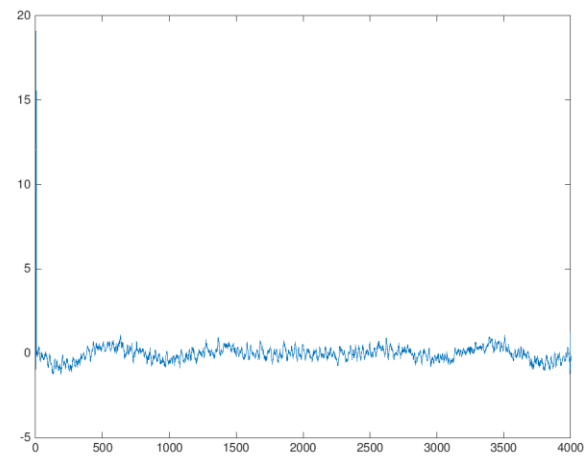
iii. median blur $w = 100$



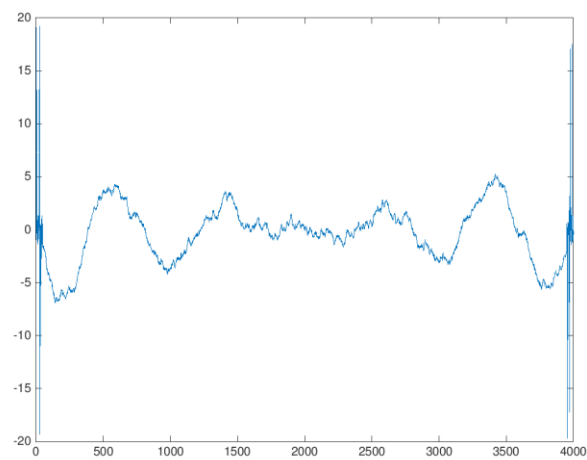
iv. Gaussian blur $w = 5$



v. Gaussian blur $w = 10$



vi. Gaussian blur $w = 100$



b. part b: Yes

$$h(t) = \frac{1}{std * \sqrt{2 * \pi}} * e^{(((x(t) - u)^2)/(2 * std^2))}$$

$$y(m) = \sum_{k=m-2}^{m+2} \frac{h(k)}{5}$$

c. part c: No

3. Question 3

a. box blur w = 3



b. box blur w = 5



c. Gaussian blur w = 3



d. Gaussian blur $w = 5$

