**CMPE 352 – Signal Processing & Algorithms**

**Class Session 3   
Week of 25 February 2019**

**Problem 1**

Perform the following complex number operations:

1. Verify the results obtained in (a)-(d) by using Matlab.

**Problem 2**

Express the following complex numbers in polar form:

1. Verify the results obtained in (a)-(e) by using Matlab.

**Problem 3**

Consider the signal plotted below.

0

1

1

-1

3

1. Sketch by hand
2. Sketch by hand
3. Sketch by hand
4. Redo (a) and (b) by using Matlab

**Problem 4**

For the signal given above, find the even and odd signals and such that . Sketch (by hand) the signals and .