Homework 3
Fall 2014

Assigned: 2/21/2017 Due: 2/21/2017

Reading: 1–40

Problem 3.1

$$\begin{array}{c} \omega \\ \hline 0 \\ 0.68 \\ 0.88 \\ 1.12 \\ 1.32 \end{array}$$

(a) The plot should be a stem plot showing the following nonzero terms:

(b)

$$y(t) = 2 + 3\cos\left(880\pi t\right) - \sin\left(680\pi t\right)$$

Problem 3.2

$$\begin{array}{c} \omega \\ \hline 0 \\ 0.47 \\ 0.51 \\ 1.49 \\ 1.53 \end{array}$$

(a) The plot should be a stem plot showing the following nonzero terms:

(b)

$$y(t) = 2 + 3\cos\left(1020\pi t\right) - \sin\left(940\pi t\right)$$