## EE 451: Homework 1

1. $\# 2.1$ from textbook
2. \#2.19 from textbook
3. $\# 2.24$ from textbook
4. \#2.37 from textbook
5. Write a MATLAB code to generate the sinusoidal sequence given by

$$
x(n)=\cos \left(\omega_{0} n\right)
$$

for
(a) $\omega_{0}=0$
(b) $\omega_{0}=0.1 \pi$
(c) $\omega_{0}=0.2 \pi$
(d) $\omega_{0}=0.8 \pi$
(e) $\omega_{0}=0.9 \pi$
(f) $\omega_{0}=\pi$
(g) $\omega_{0}=1.1 \pi$
(h) $\omega_{0}=1.2 \pi$
use the stem function to plot your results and make sure you label all your figures.

