EE473 HW-1
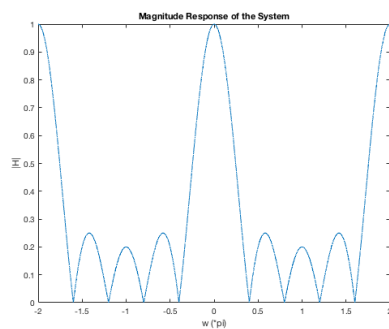
Ibrahim Kahraman 2015401108

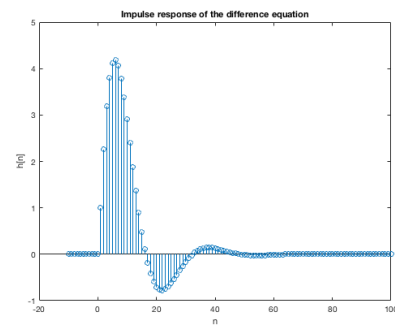QUESTION-2   QUESTION-3
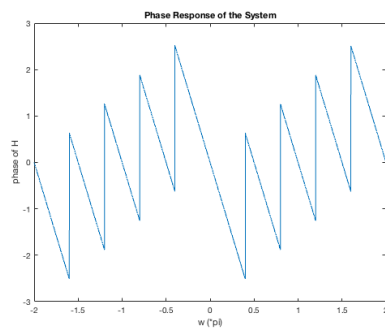
Question-2b

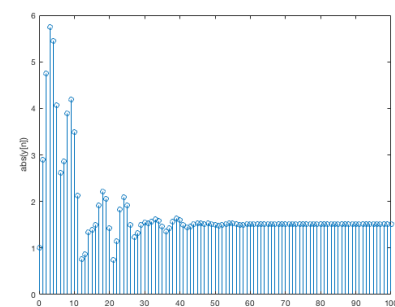*Question-3a*

Magnitude Response

Impulse response of the Difference Equation
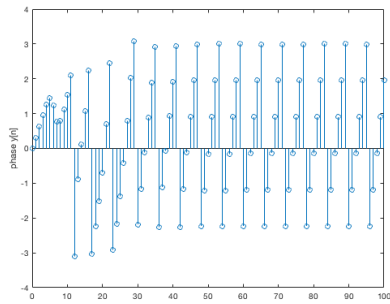
Question-2c

Question-3c

Phase Response

Magnitude of y[n]

The phase of the system is not linear, so this system changes the phase of the input. Therefore, it is phase distorting system.
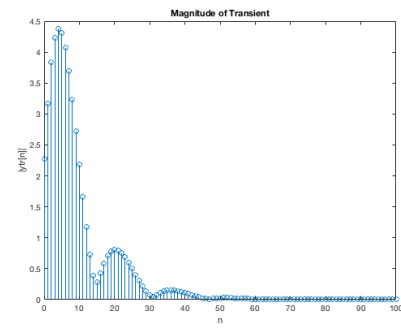
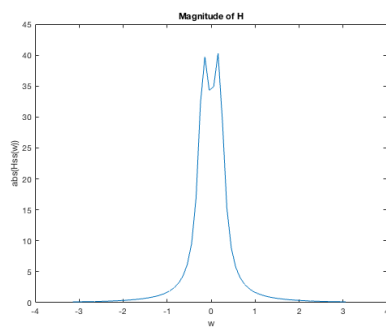While n goes to infinity, the magnitude converges approximately to 1.5.

Phase of y[n]

Magnitude of transient response

However, while n goes to infinity, the phase diverge.

Question-3e

Phase of transient response

Magnitude of H

Phase of H