

Signals and Systems - Rate Change

Mazz Shaikh - 932056724

Ron Abraham -

June 2, 2022

Part 1

1

2

Part 2

1

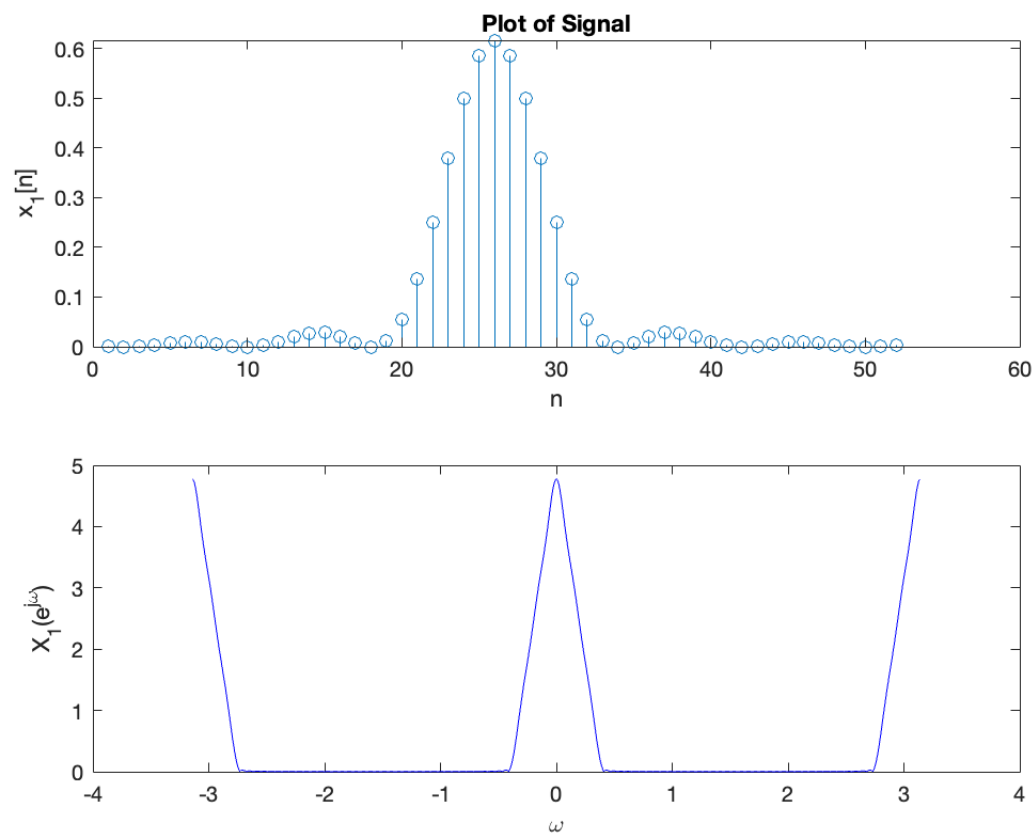


Figure 1: Plot of Signal

2

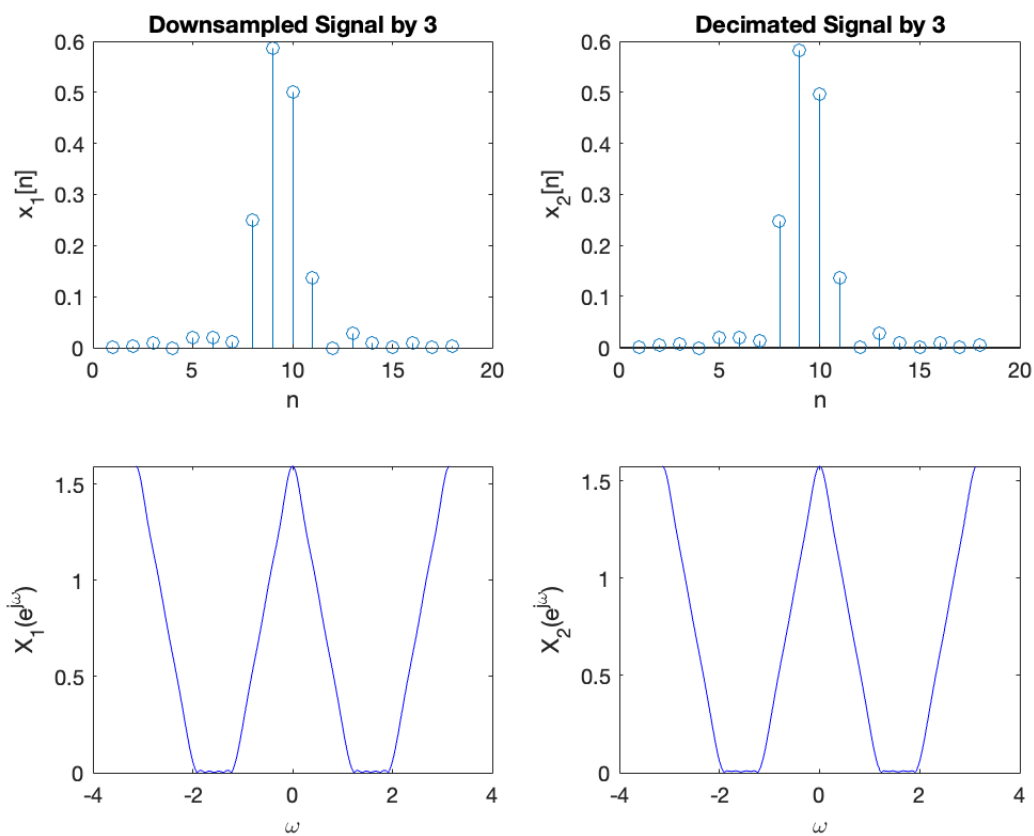


Figure 2: Downsampling by 3

There is no significant difference between downsample and decimate. hello

3

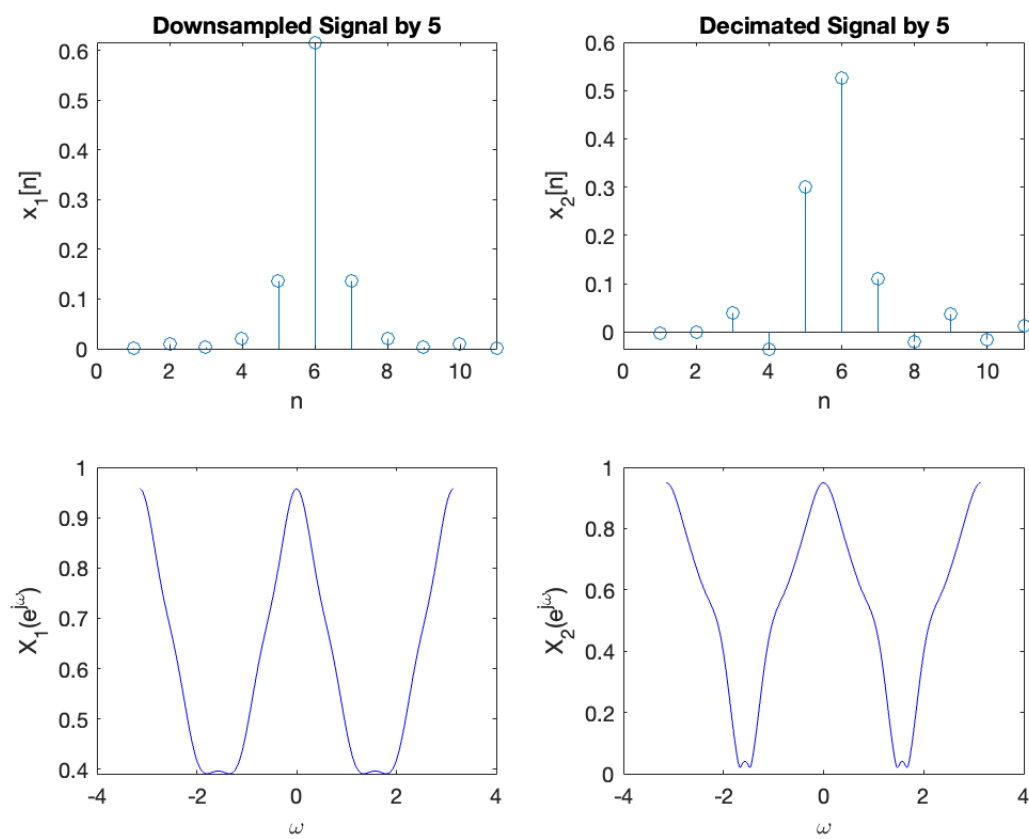


Figure 3: Downsampling by 5

4

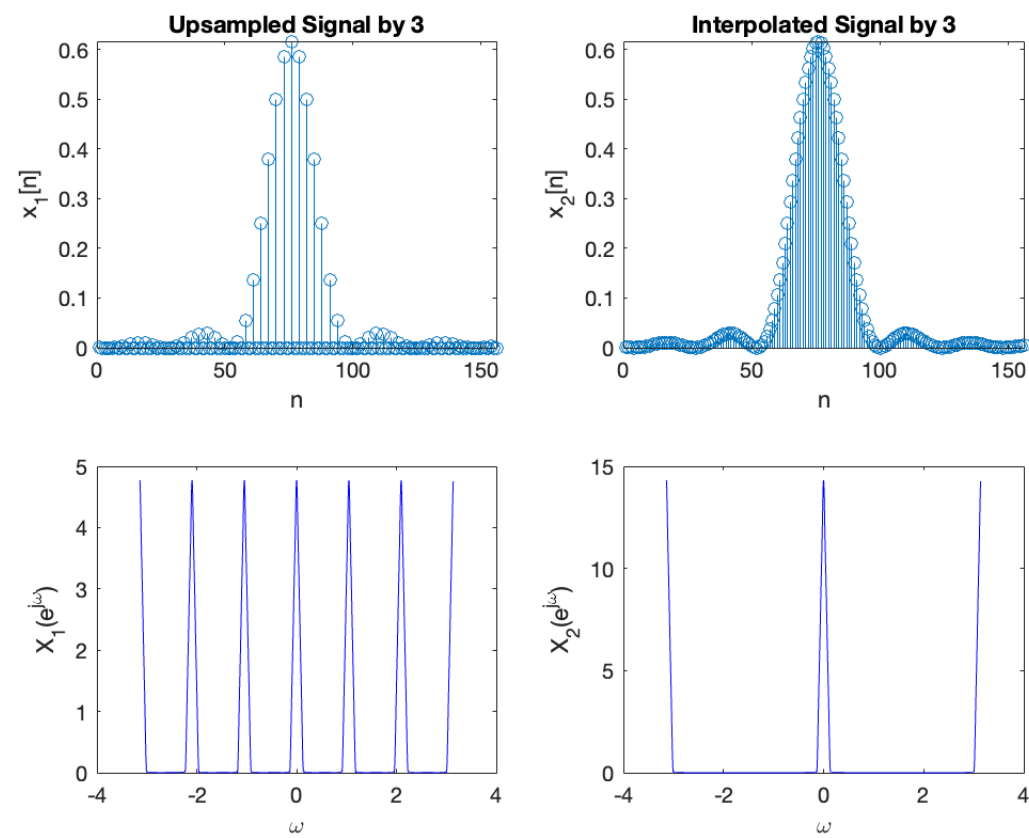


Figure 4: Interpolated by 3

5

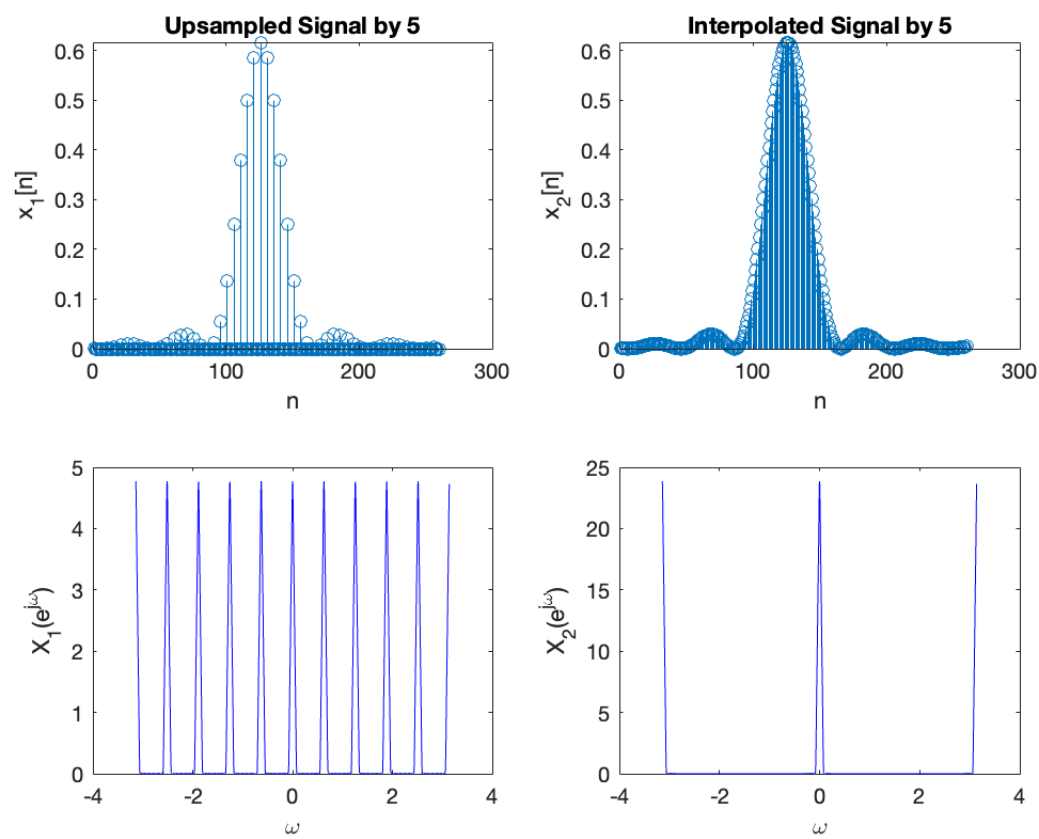


Figure 5: Interpolated by 5

6

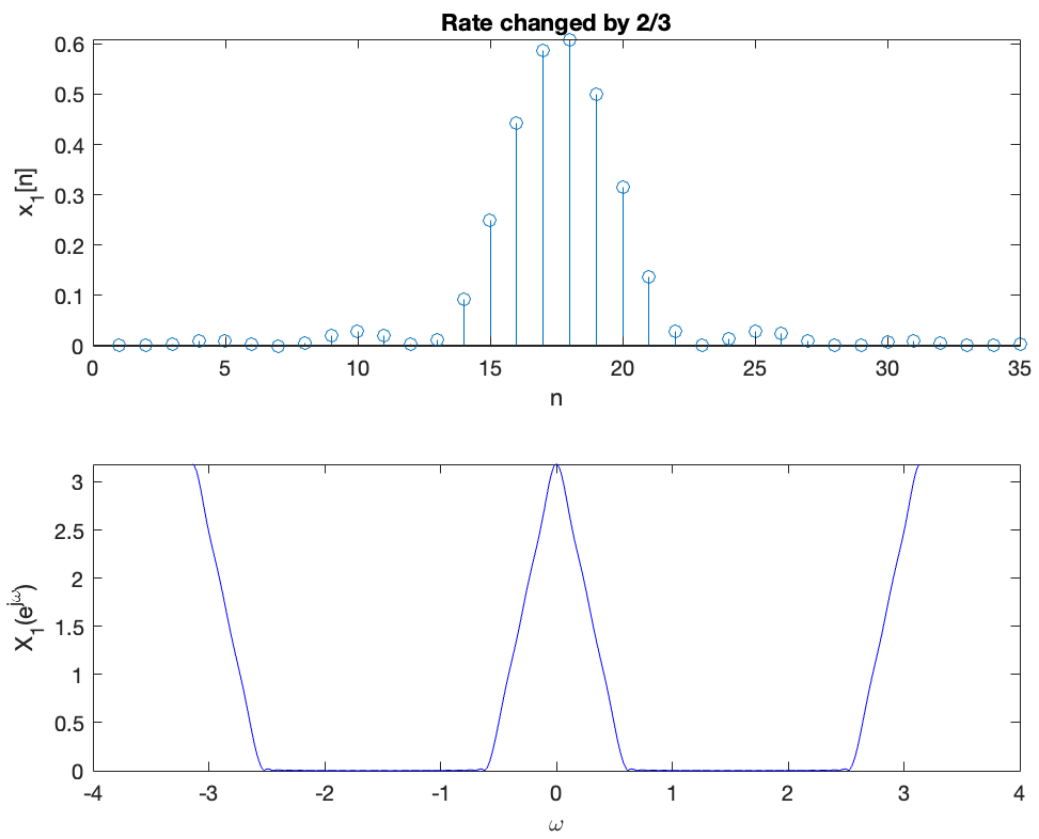


Figure 6: Interpolated by 3

Part 3

