Signals and Systems - Rate Change

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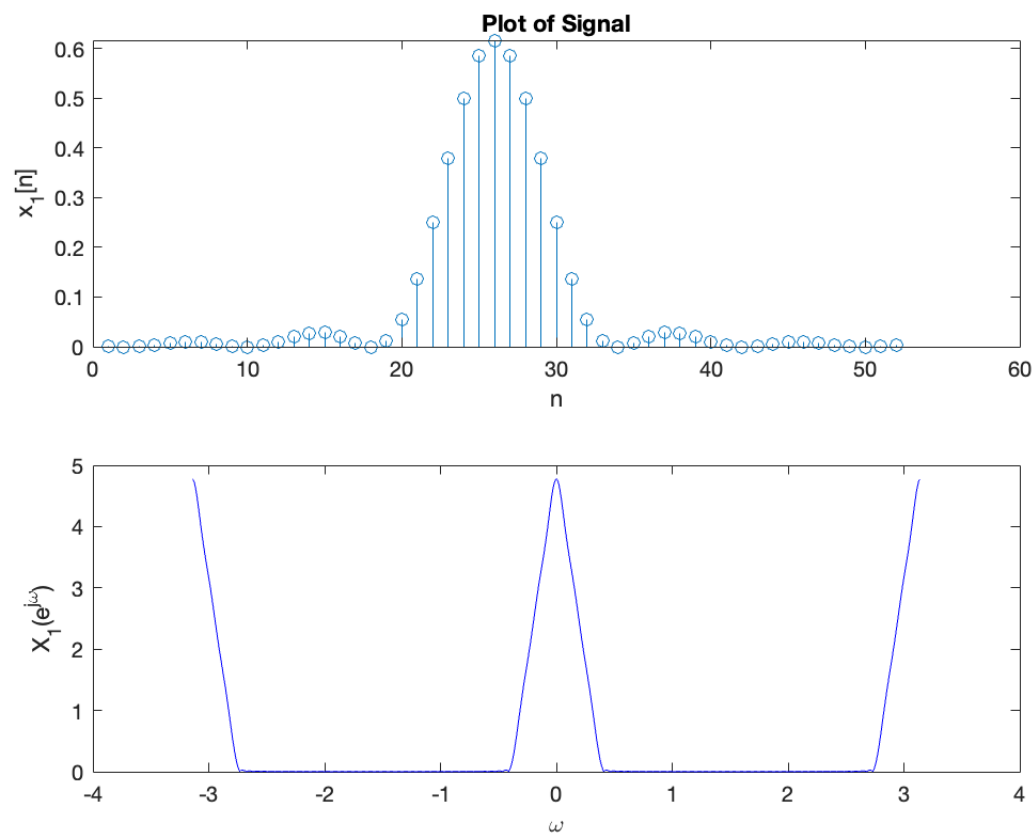## Part 1

1

2

Part 2
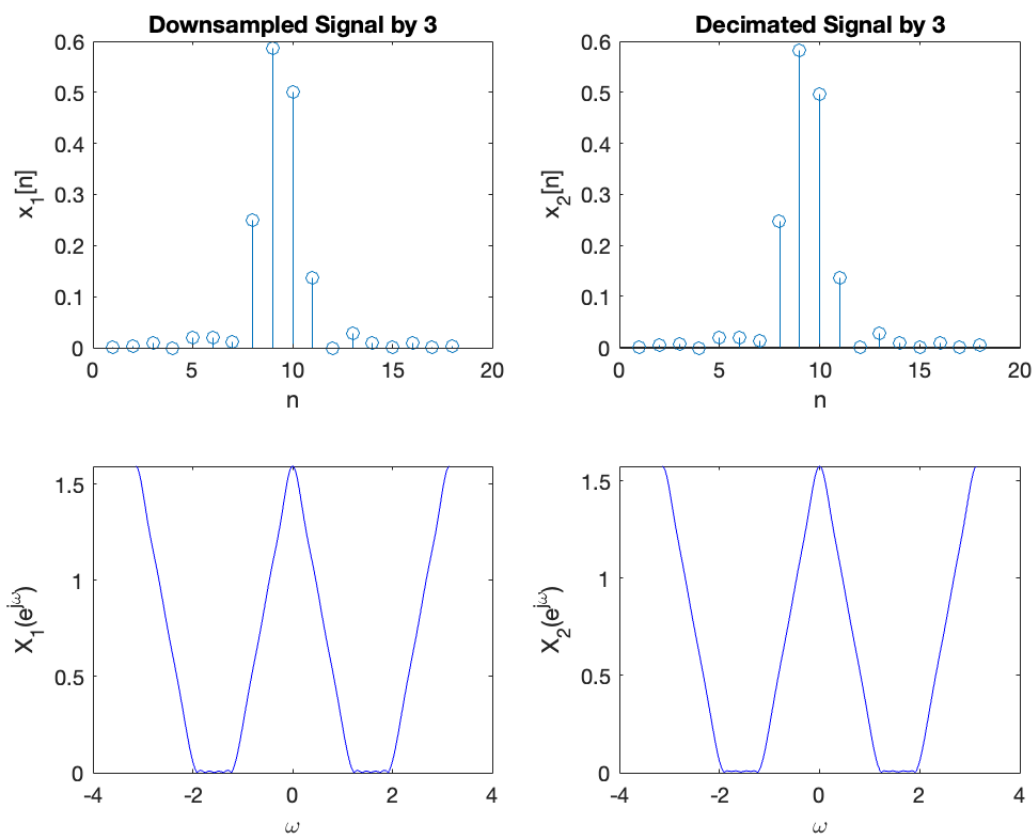
1

Figure 1: Plot of Signal

2

Figure 2: Downsampling by 3

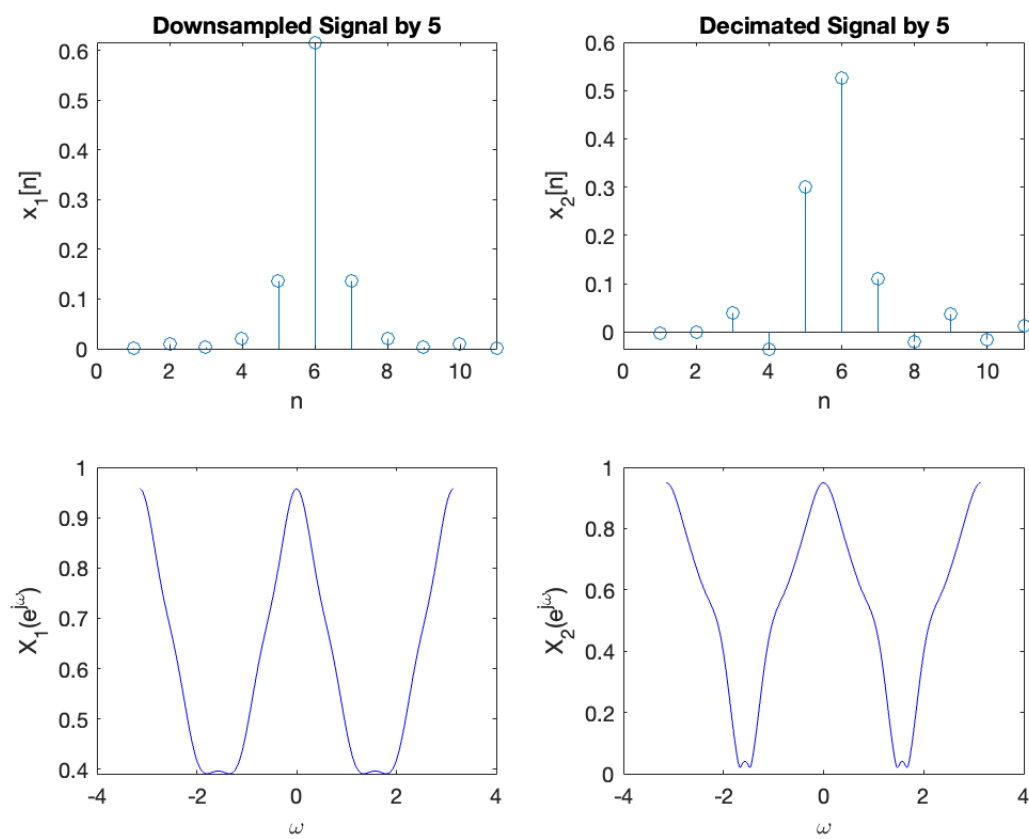There is no significant difference between downsample and decimate.
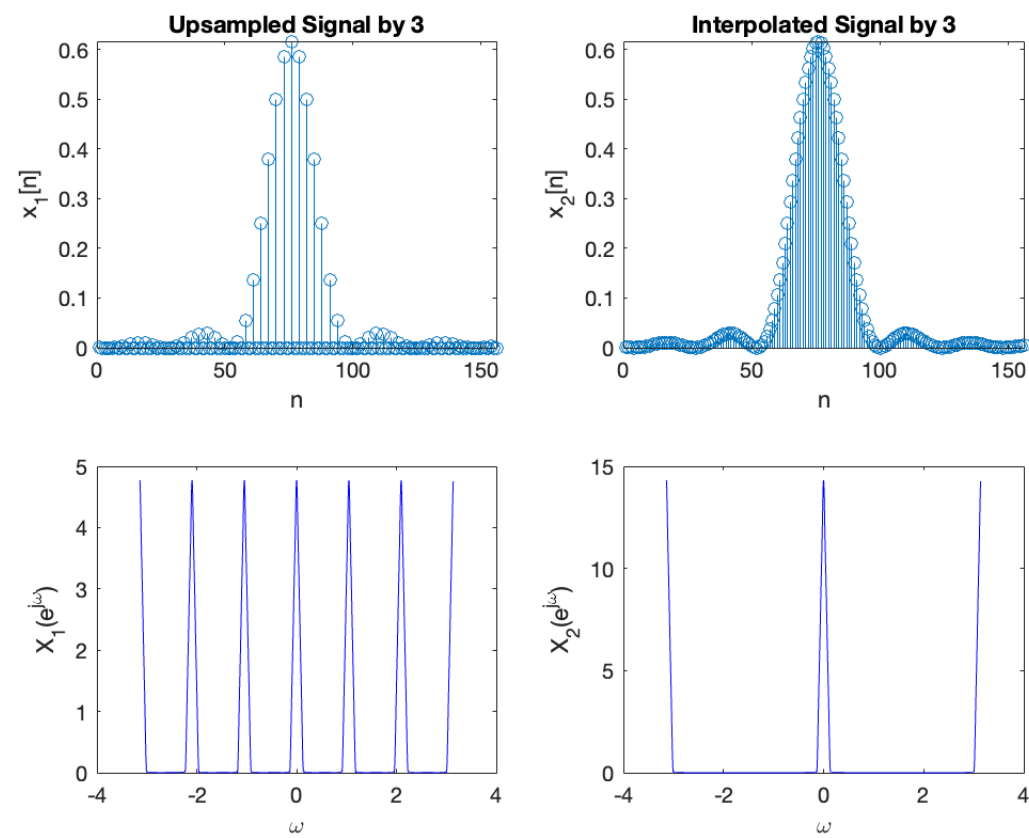
3

Figure 3: Downsampling by 5
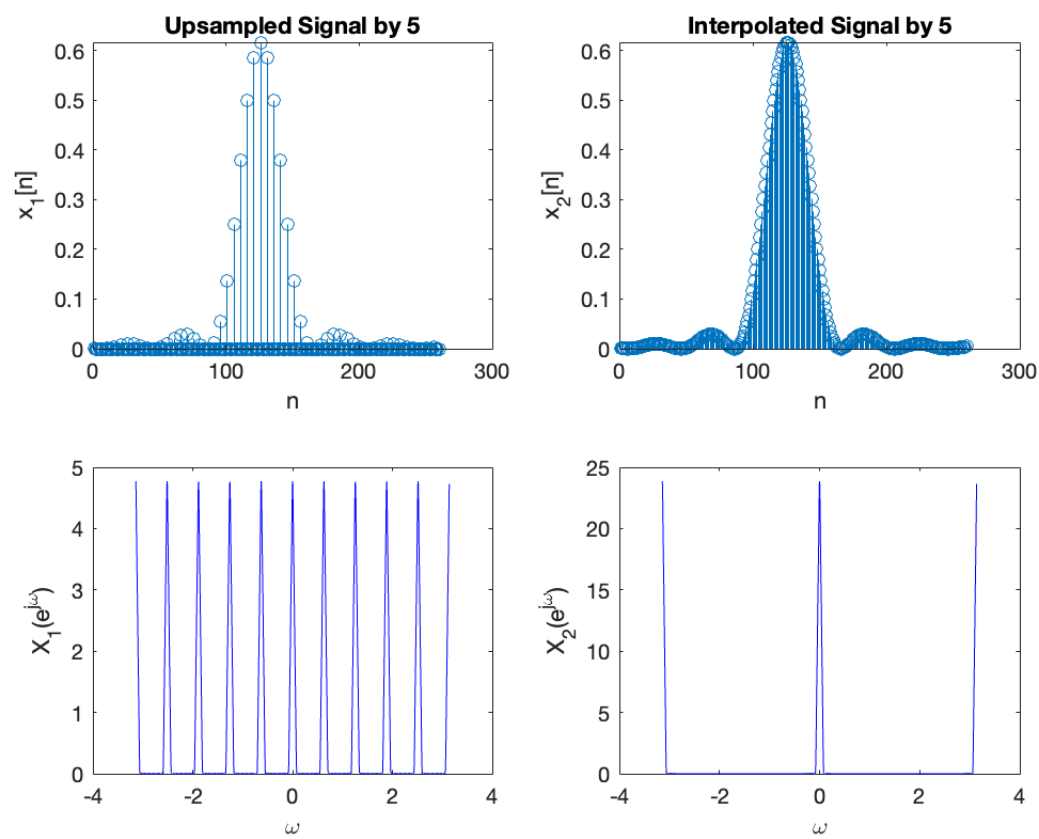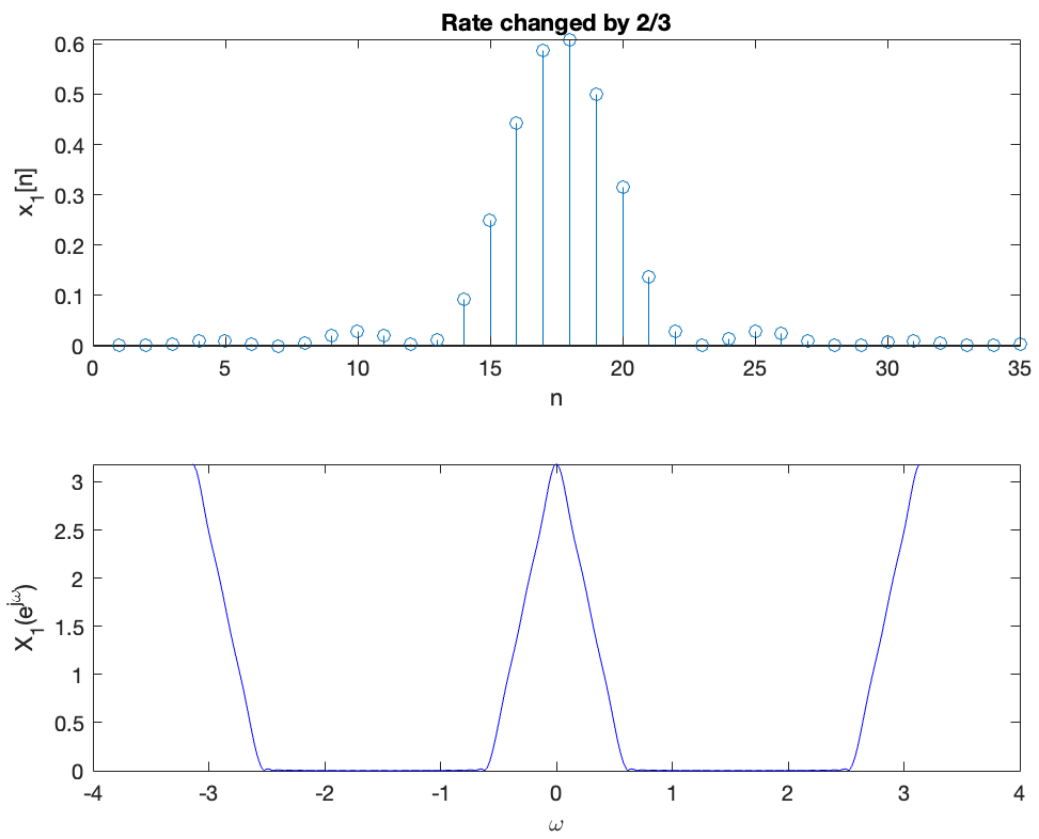
4

Figure 4: Interpolated by 3

5

Figure 5: Interpolated by 5

6

Figure 6: Interpolated by 3

4

Part 3