Section II – Figures

Figure 1: Spectrum s(t)

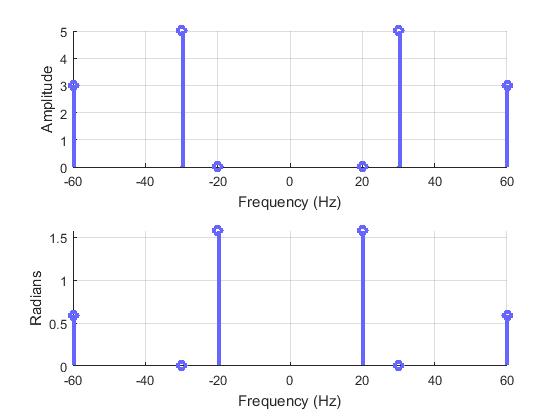


Figure 2: s(t)

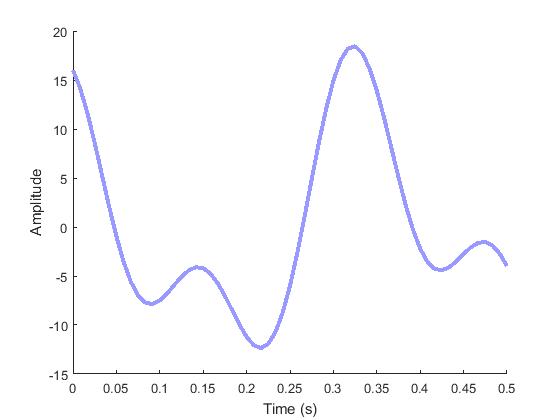


Figure 3: Spectrum s[n]

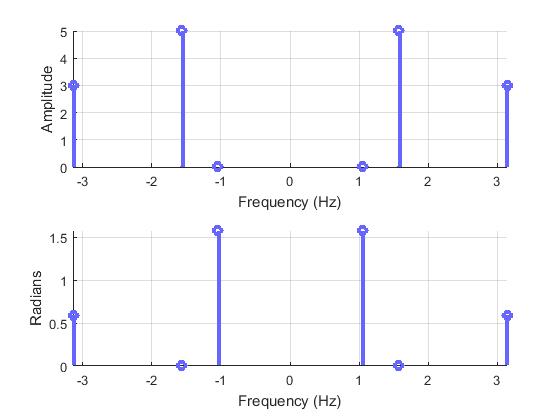


Figure 4: s[n]

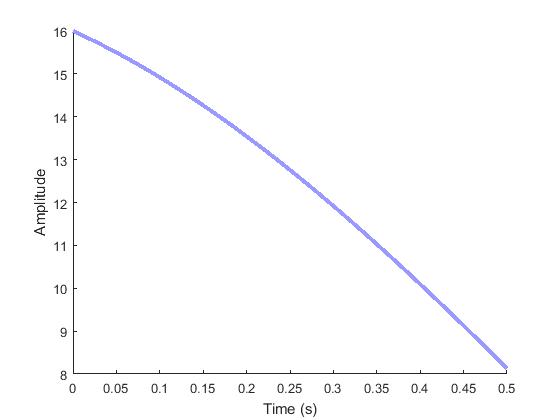


Figure 5: Spectrum of reconstructed s(t)

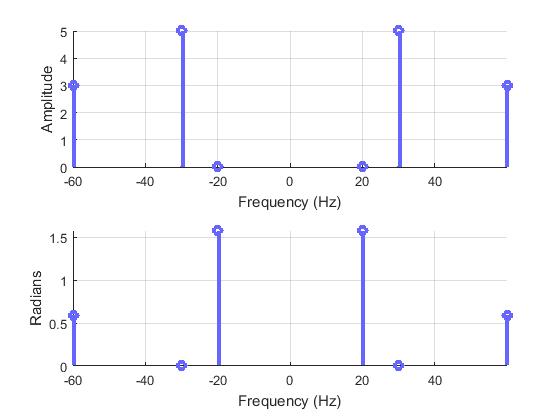


Figure 6: Reconstructed s(t)

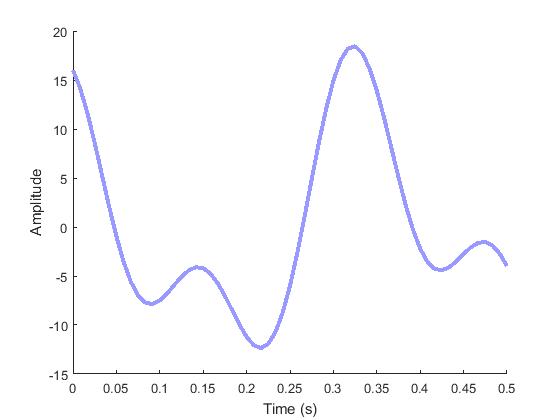


Figure 7: Aliased Spectrum s(t)

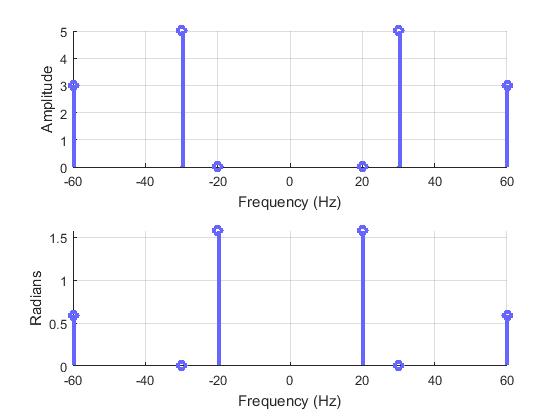


Figure 8: Aliased s(t)

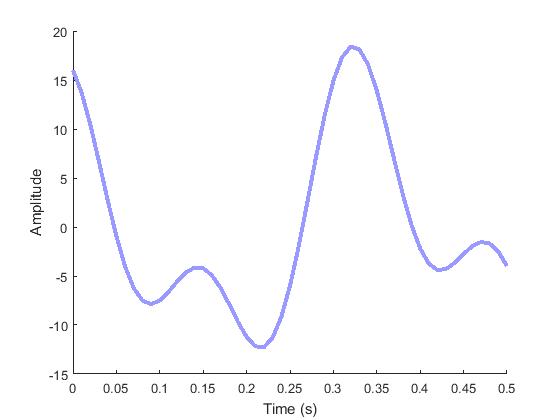


Figure 9: Aliased Spectrum s[n]

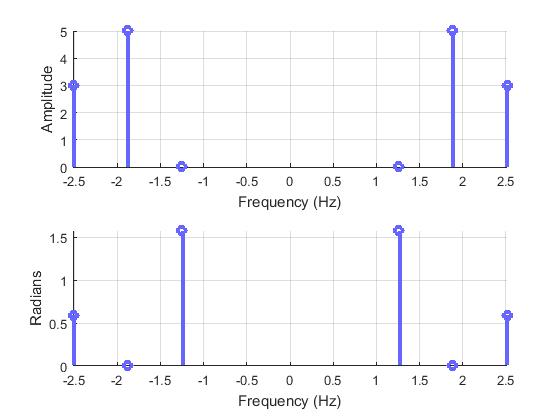


Figure 10: Aliased s[n]

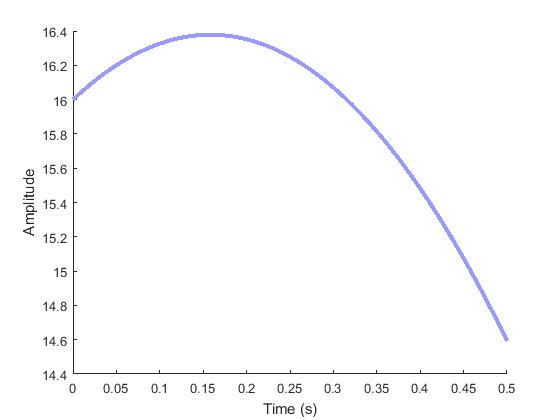


Figure 11: Aliased Spectrum of reconstructed s(t)

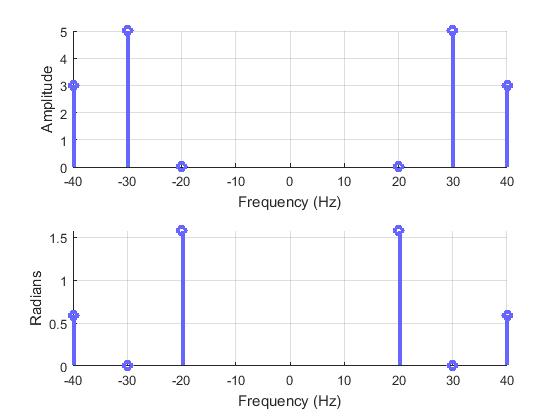


Figure 12: Reconstructed Aliased s(t)

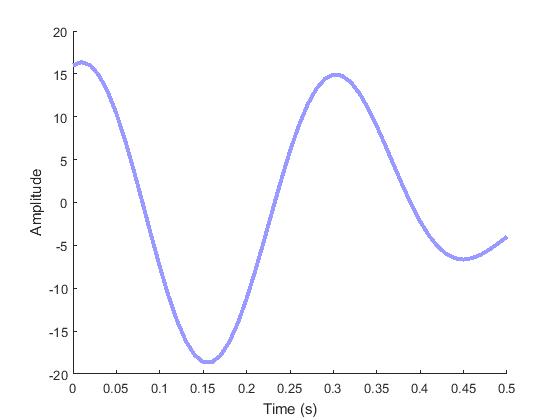


Figure 13: Lowpassed Spectrum s(t)

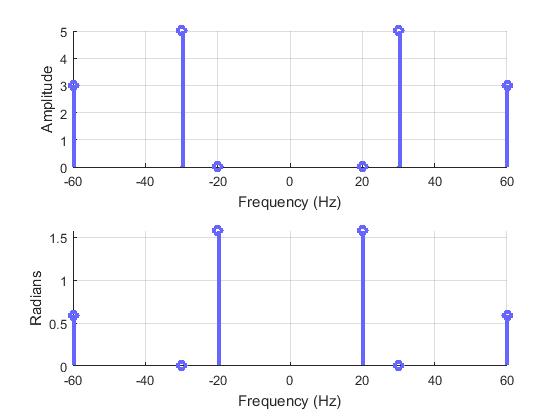


Figure 14: Lowpassed s(t)

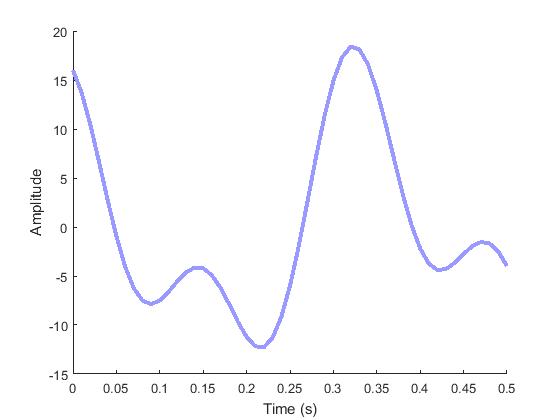


Figure 15: Lowpassed Spectrum s[n]

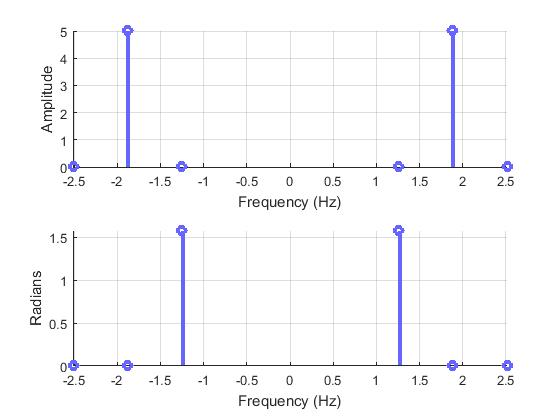


Figure 16: Lowpassed s[n]

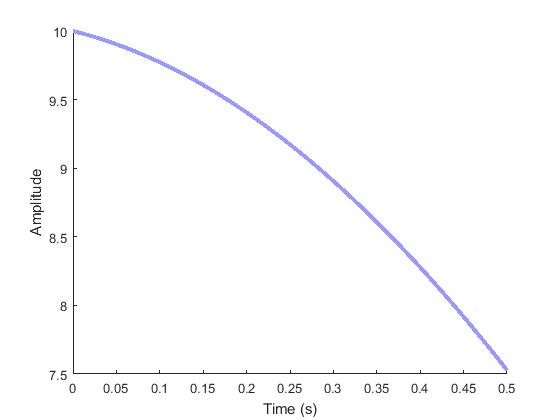


Figure 17: Lowpassed Spectrum of reconstructed s(t)

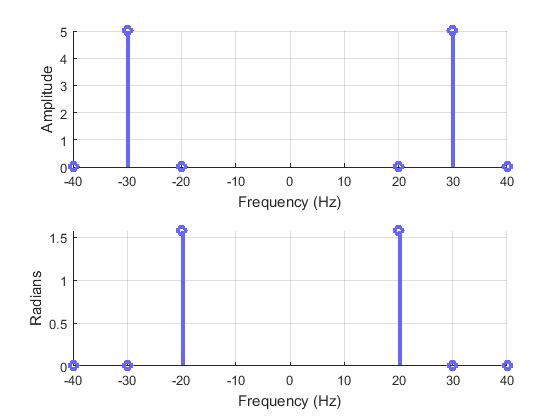


Figure 18: Reconstructed Lowpassed s(t)

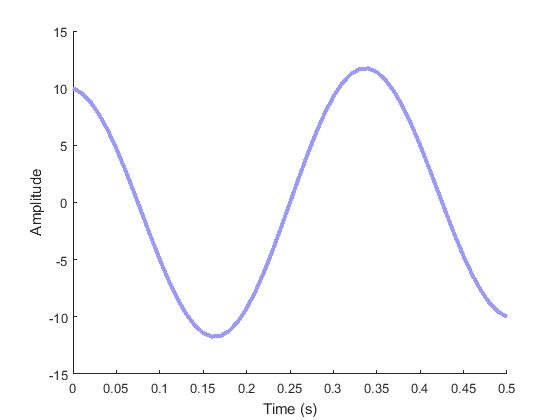


Figure 19: Problem 3 Spectrum s(t)

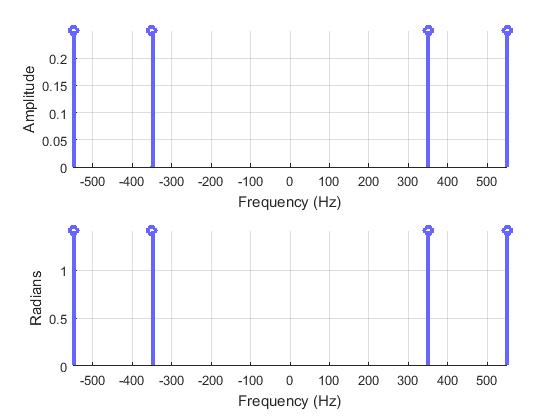


Figure 20: Problem 3 s(t)

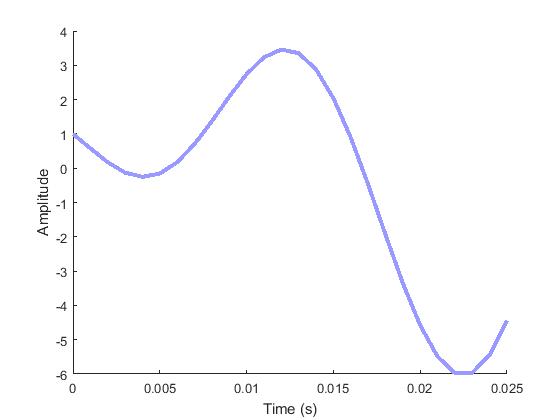


Figure 21: Problem 3 Spectrum s[n]

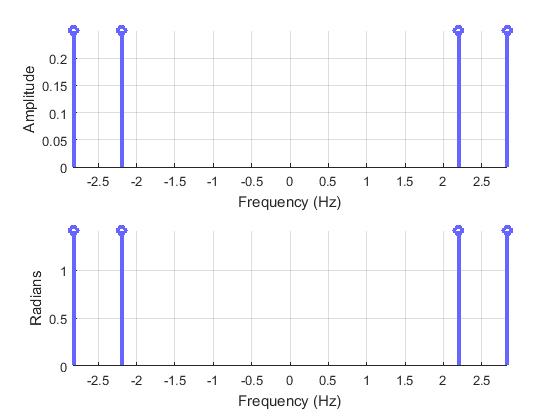


Figure 22: Problem 3 s[n]

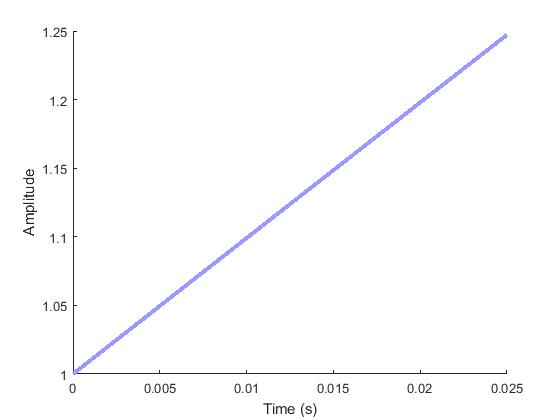


Figure 23: Problem 3 Spectrum of reconstructed s(t)

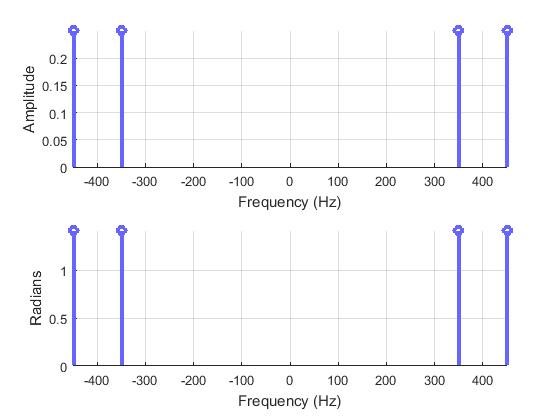


Figure 24: Problem 3 Reconstructed s(t)

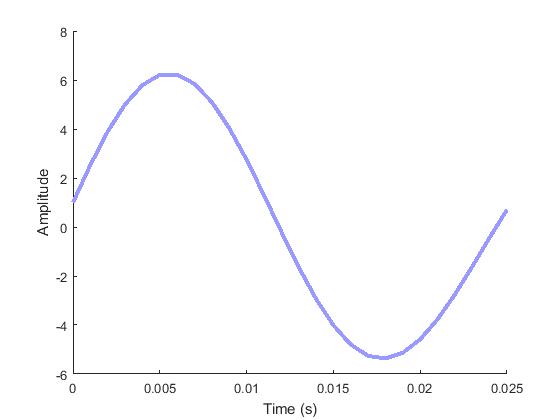


Figure 25: Problem 3: s(t) and reconstructed s(t) (each 10th line is n/fs)

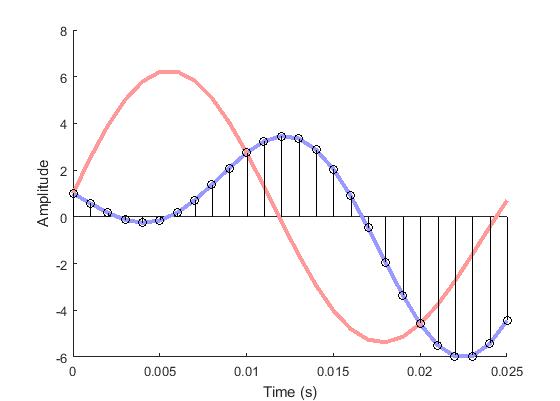


Figure 26: Recorded Audio

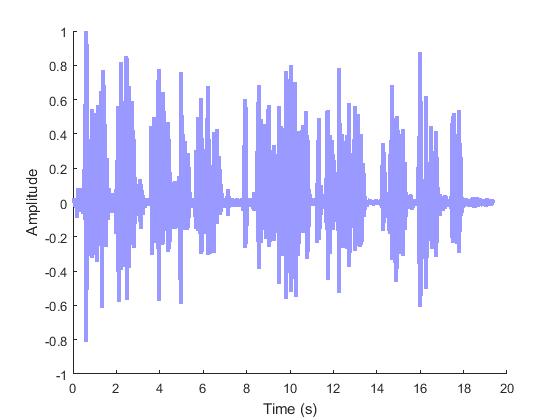


Figure 27: XN1 Added

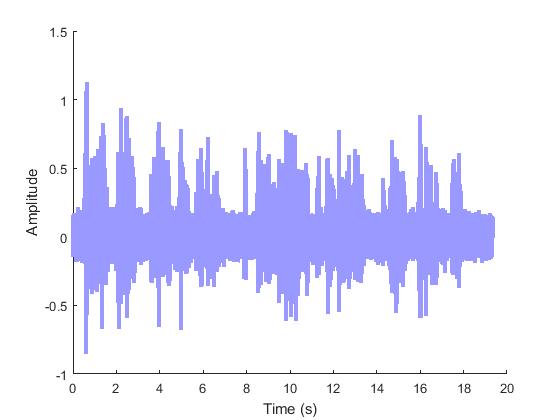


Figure 28: XN2 Added

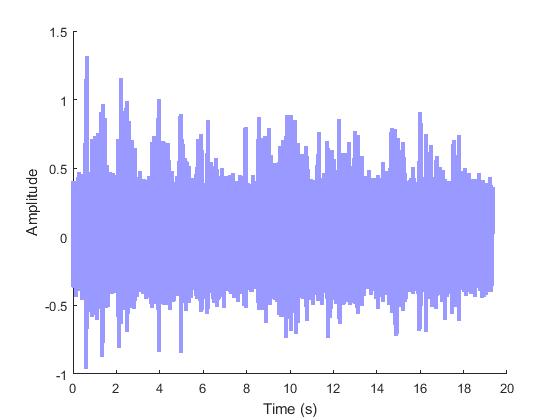


Figure 29: XN1 Denoised with Average Filter

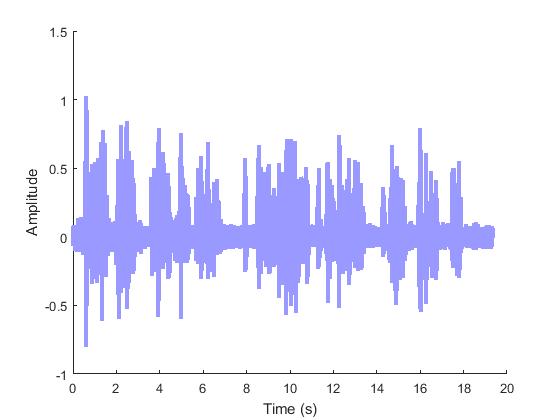


Figure 30: XN2 Denoised with Average Filter

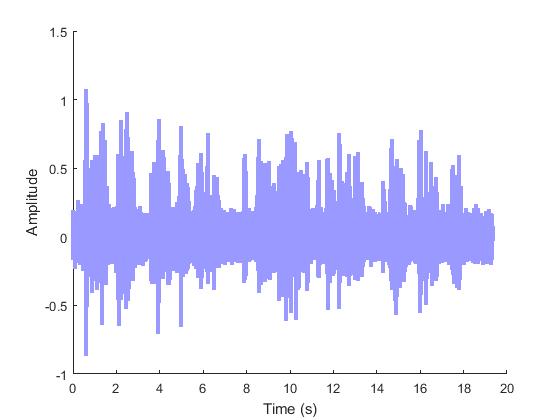


Figure 31: SNR vs. Filter Length

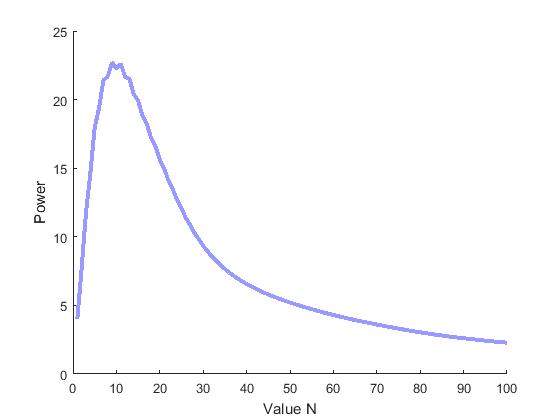


Figure 32: Generated Waveform for 5.1

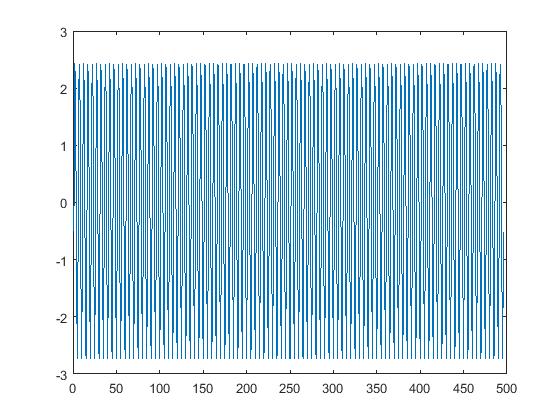


Figure 33: Magnitude V. values w

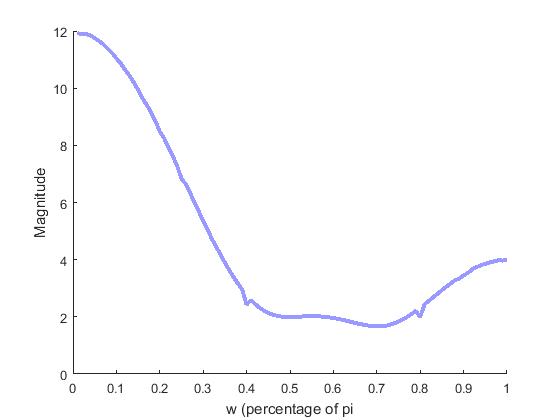


Figure 34: plot of w v. H(w)

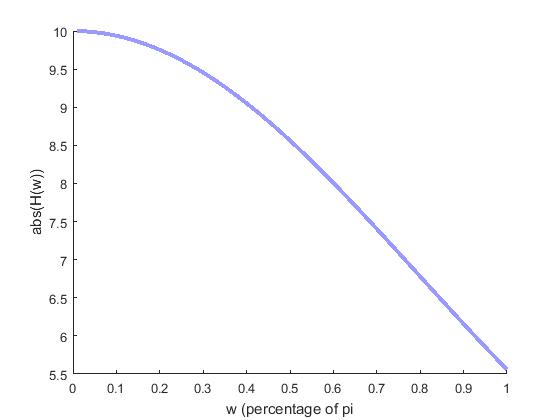


Figure 35: 0 Coefficient FIR filter Results

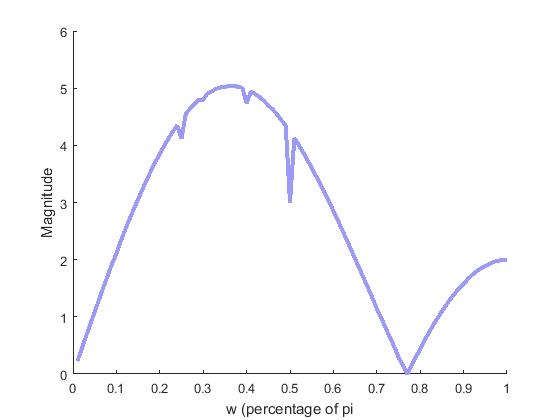
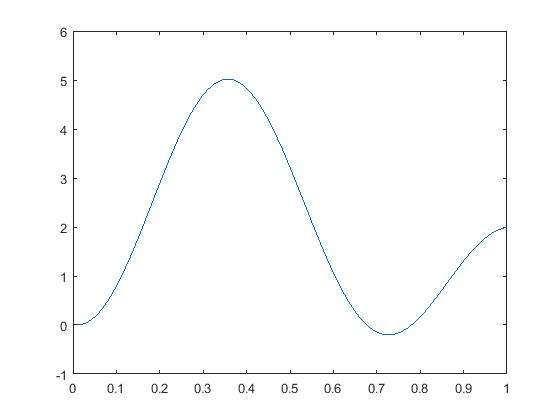


Figure 36: Graph generated with **freqz**



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