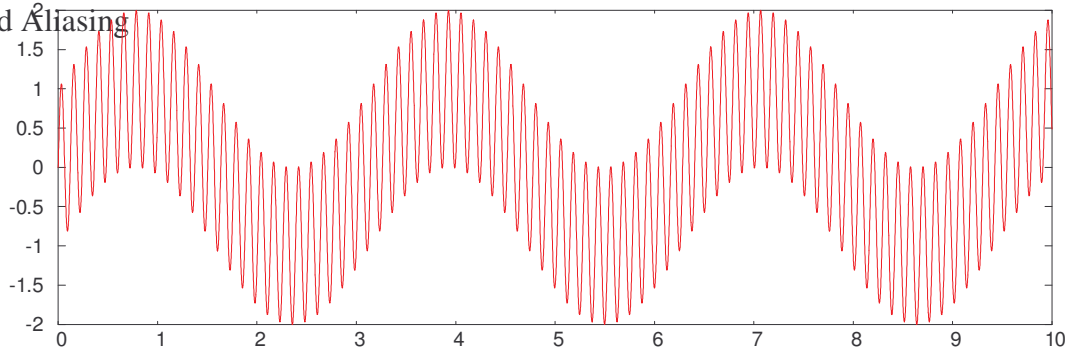


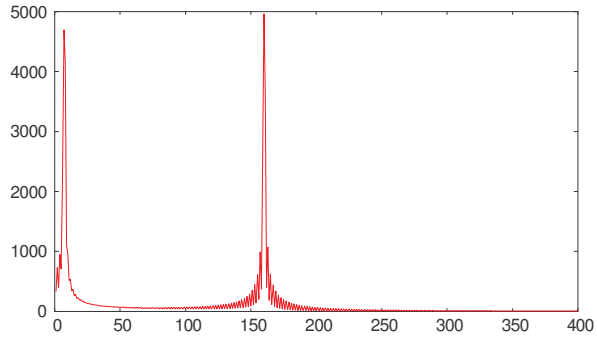
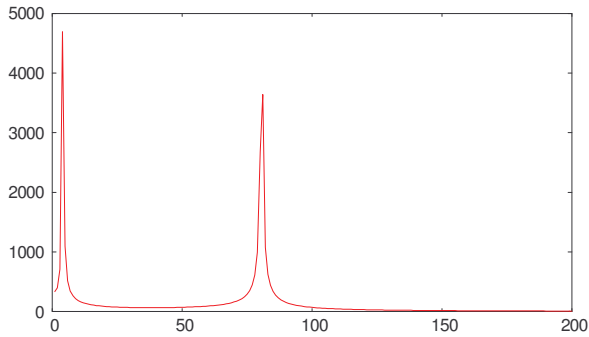
ELG 7173: Sampling and Aliasing

Sampling

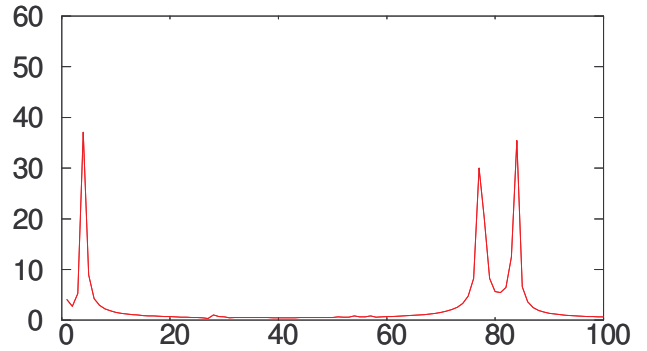
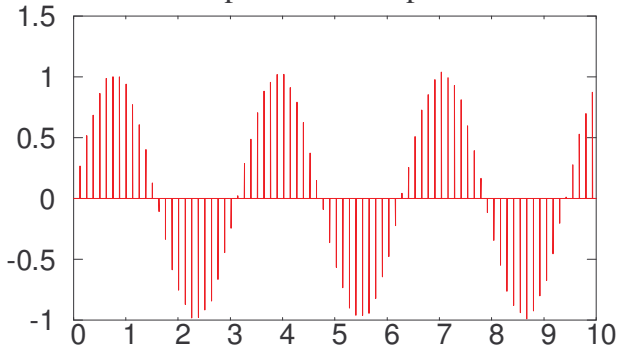
```
t=0:.001:10;
w=sin(2*t) + sin(50*t);
plot(w)
```



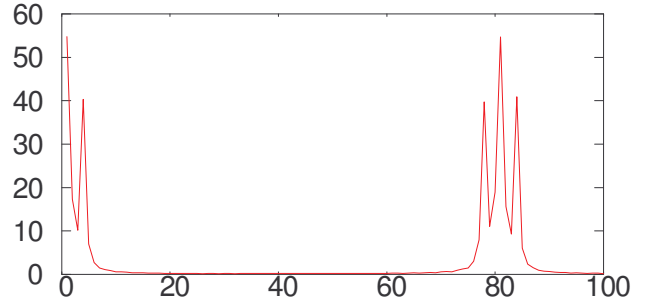
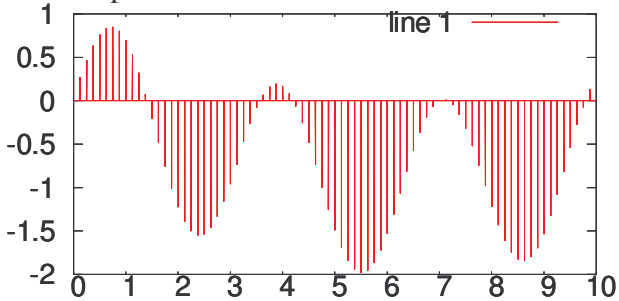
```
plot( abs(fft(w)))
plot( abs(fft([w,zeros(size(w))])))
```



Comb Filter: `s=rem(t, 1/period) <.001;`
`period = 50/2/pi = 7.9577`



`period= 50/2/pi*1.005 = 8.0`



`period= 50/2/pi*1.005 = 8.04`

