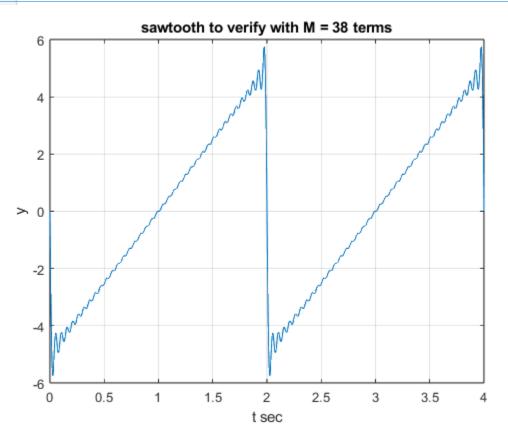
```
Section 3
           make_stem(m,cm,'Spectrum','harmonic','Fourier coefficient');
15
16
           Pcm = (abs(cm).*abs(cm));
17
          make_stem(m,Pcm,'Power Spectrum','harmonic','power');
%Find cumulative power in spectrum lines
18
19
20
           % Find zero element in m
21
           zero_ind=find(m == 0);
           % Find all positive values in m (1 through M)
22
23
           pos_ind = find(m > 0 \& m <= M);
24
           Pcm_harmonic = [Pcm(zero_ind) 2*Pcm(pos_ind)];
25
           make_stem([0:M],cumsum(Pcm_harmonic),'Cumulative Power Spectrum','harmonic','cumulative power');
26
27
           M = 38; % number of harmonics
28
           T = 2; % waveform period 2s
29
           [m,cm] = create_cm_series(M,T); % create fourier coefficients
30
           t = 0:4/1000:4; % 1001 points from 0 sec to 4 sec
           [y] = cm2yt(t,T,m,cm,M);
31
           make_plot(t,y,'sawtooth to verify with M = 38 terms','t sec','y');
32
```



```
Section 4
          init();
          M = 31;
T = 2; % waveform period 2s
34
35
36
          [m,cm] = create_cm_series(M,T); % create Fourier coefficients
37
38
          t = 0:4/1000:4; % 1001 points from 0 sec to 4 sec
39
40
          % original sawtooth
41
          [y] = cm2yt(t,T,m,cm,M);
42
          make_plot(t,y,'Sawtooth (original version)','t sec','y');
43
44
          % windowed sawtooth
          win = hamming(2*M+1)'; %Hamming window
45
46
          cwin = cm.*win; %Windowed Fourier coefficients
47
          [ywin] = cm2yt(t,T,m,cwin,M); % <---- Complete this line</pre>
48
          make_plot(t,ywin,'Windowed sawtooth for verify with 63 terms','t sec','y');
```

