```
1 %Xi Kun Zou m5
 2 n=[1;3;5;7;9;11;13;15;17;19;21;23];
 3 T=0.1;
 4 \text{ w0}=2*\text{pi/T};
 5 bnodd = (8./(n*w0*T)).*(-\cos((n*2*w0*T)/15)+\cos((n*w0*T)/15)-\cos((n*w0*T)/4)+\cos \checkmark
((n*w0*T)/5))
6 t = linspace(0, T, 800);
 7 plot1 = bnodd(1) *sin(w0*t*n(1));
8 plot2 = plot1+bnodd(2)*sin(w0*t*n(2));
 9 plot3 = plot2+bnodd(3)*sin(w0*t*n(3));
10 plot4 = plot3+bnodd(4)*sin(w0*t*n(4));
11 plot5 = plot4+bnodd(5)*sin(w0*t*n(5));
12 plot6 = plot5+bnodd(6)*sin(w0*t*n(6));
13 plot7 = plot6+bnodd(7)*sin(w0*t*n(7));
14 plot8 = plot7+bnodd(8) *sin(w0*t*n(8));
15 plot9 = plot8+bnodd(9)*sin(w0*t*n(9));
16 plot10 = plot9+bnodd(10)*sin(w0*t*n(10));
17 plot11 = plot10+bnodd(11)*sin(w0*t*n(11));
18 plot12 = plot11+bnodd(12)*sin(w0*t*n(12));
19 plot(t,plot1,t,plot2,t,plot3,t,plot4,t,plot5,t,plot6,t,plot7,t,plot8,t,plot9,t, ✓
plot10, t, plot11, t, plot12)
20
21 xlabel({'Time','(seconds)'})
22 ylabel({'F(t)'})
23 title('M5 12 terms of the Truncated Fourier Series')
```

Trial>> m5

bnodd =

0.7047

0.1312

0.2546

-0.4912

-0.1145

0.1369

-0.0035

0.0849

-0.0026

0.0793

-0.0491

-0.1495

Trial>>

