MATLAB Command Window

```
>> type drawwaves

% DRAWWAVES - Draws waves
%--------------------
lwave = linspace(-3,8);                    % x values for length of waves
twave = 1/2*sin(lwave.*2);                 % y values for top wave
mwave = 1/2*sin(lwave.*2)-1;               % y values for middle wave
bwave = 1/2*sin(lwave.*2)-2;               % y values for bottom wave
plot(lwave,twave,'b-',lwave,mwave,'b-',lwave,bwave,'b-');
                                           % draw waves
>> type drawsun

% DRAWSUN - Draws sun
%--------------------
wsun = linspace(pi,2*pi);                  % x values for diameter of sun
tsun = sqrt(-((3*pi)/2 - wsun).^2+(pi/2)^2)+5;
                                           % y values for top half of sun
bsun = -sqrt(-((3*pi)/2 - wsun).^2+(pi/2)^2)+5;
                                           % y values for bottom half of sun
plot(wsun,tsun,'yx-',wsun,bsun,'yx-');     % draw sun
>> type drawboat

% DRAWBOAT - Draws boat
%--------------------
lboat = linspace(-sqrt(2),sqrt(2));        % x values for length of boat
bboat = -sqrt(-lboat.^2+2)+1;              % y values for bottom half of boat
tboat = 1;                                 % y values for top half of boat
mast = [linspace(1,3)]';                   % y values for mast
wsail = linspace(-1.3,0);                  % x values for sail
dsail = 3+1.3*wsail;                       % y values for sail
fill(lboat,bboat,'r',lboat,tboat,'r');     % draw boat
plot(0,mast,'k-',wsail,dsail,'k-',wsail,1.31,'k-');
                                           % draw mast and sail
>> drawwaves;
>> hold on;
>> drawsun;
>> hold on;
>> drawboat;
Warning: Imaginary parts of complex X and/or Y arguments ignored
> In drawboat at 10
>> axis equal
>> axis ([-3 7 -3 7])
>>
```