```
clear all;
close all;
clc;
format long;
name = 'Natalie Ratzlaff';
id = 'A17091327';
hw_num = 6;
11 = 2.7;
12 = 1;
13 = 2.4;
14 = 3;
L1 = 11/14;
L2 = 11/12;
L3 = (11^2+12^2-13^2+14^2)/(2*12*14);
th2 = 1:1:360;
th4 = zeros(1,360);
for n = 1:1:360
    fr = @(t4) L3 + L2*cosd(t4) - L1*cosd(th2(n)) - cosd(th2(n)-t4);
   t4 = [0 \ 180];
    th4(n) = fzero(fr,t4);
end
th3 = asind((14*sind(th4)-12*sind(th2))/13);
w2 = 1:1:360;
w3 = abs(12/13 * sind(th4-th2)/sind(th3-th4) * w2);
w4 = abs(12/14 * sind(th3-th2)/sind(th3-th4) * w2);
figure(1);
plot(th2,th3);
hold on;
plot(th2,th4);
figure(2);
plot(w2,w3);
hold on;
plot(w2,w4);
p1a = 'See figure 1';
p1b = 'See figure 2';
```



