1. 0 (14,3), (12,2), (3/4,0)} 0 C2CDS 2TT+ + C3SIN 2TT+ 400 0 002 010-0 6  $c = \frac{3}{2}$ = Q=3/2 40 . b=-1/2 00 -¢ SE = 02+02+02+0 2. 1/1 = 12+12+12+12 = 2 = ru +9.1/2+ 1/2-1 =8 -1/2 1/2 1/2 2 10

0 6

1/2

1/2

```
% plot data and polynomials
plotp1 = polyval(deg1, x);
figure(1)
plot(x,y,'o')
hold on
plot(x,plotp1)
hold off
title('Degree 1 Polynomial and Data Points')
plotp2 = polyval(deg2, x);
figure(2)
plot(x,y,'o')
hold on
plot(x,plotp2)
hold off
title('Degree 2 Polynomial and Data Points')
plotp3 = polyval(deg3, x);
figure(3)
plot(x,y,'o')
hold on
plot(x,plotp3)
hold off
title('Degree 3 Polynomial and Data Points')
```

## Graph outputs:





