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HW4
18-660

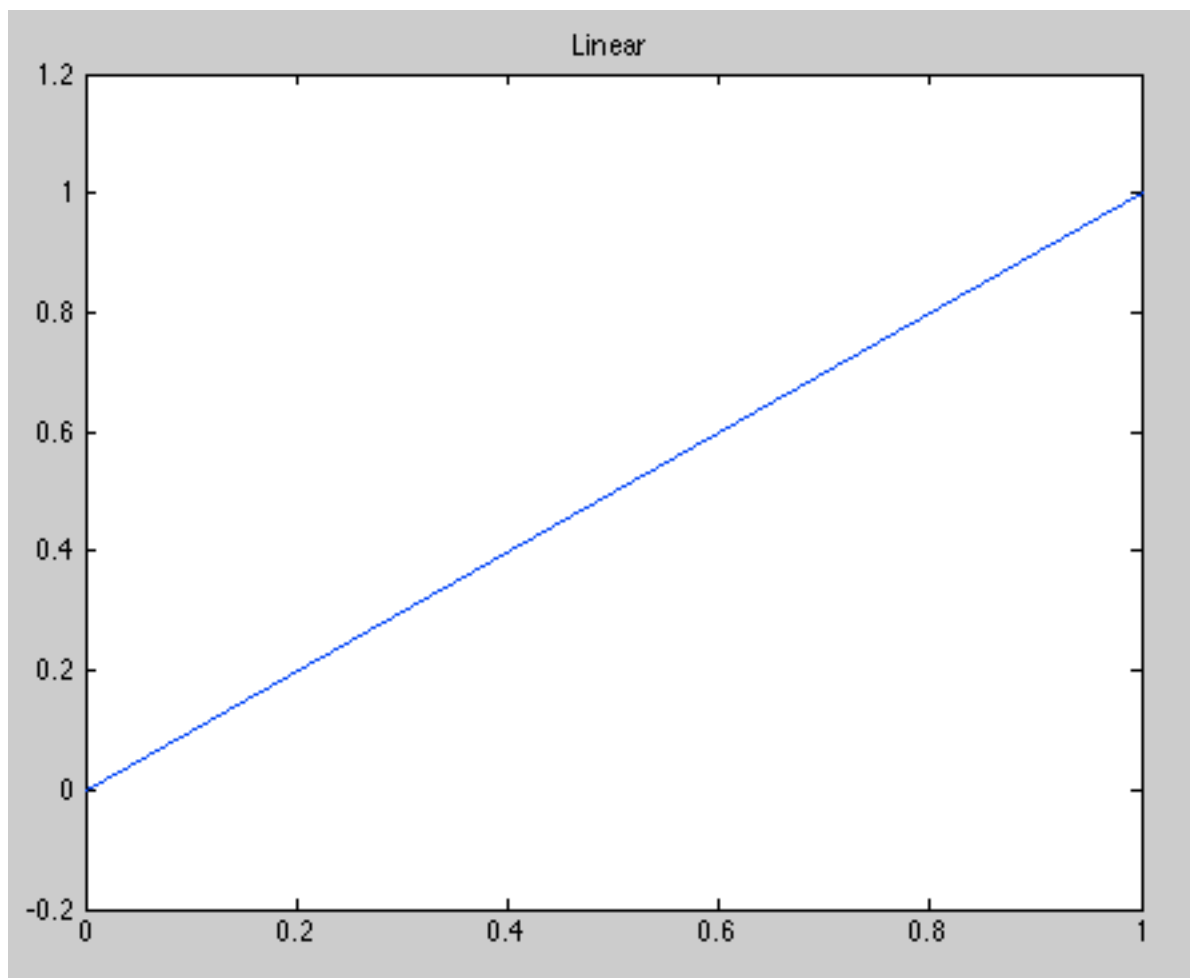
The first page is how I did the linear regression. The second page is the plot of the linear regression. The third page is how I executed the Quadratic regression and the fourth page is the plot of the quadratic regression.

```
>> x = 0:.25:1;
>> y = 0:.25:1;
>> ones = ones(1,5);
>> X = transpose([x ; ones]);
>> y = transpose(y);
>> a = X\y

a =

    1.0000
   -0.0000

>> plot(x,a(1)*x + a(2))
>> title('Linear')
```



```
>> x = 0:.25:1;
>> y = 0:.25:1;
>> ones = ones(1,5);
>> X = transpose([x.^2; x ; ones]);
>> y = transpose(y);
>> a = X\y;
>> plot(x,a(1)*x^2 + a(2)*x + a(3))
Error using ^
Inputs must be a scalar and a square matrix.
To compute elementwise POWER, use POWER (.^) instead.

>> plot(x,a(1)*x.^2 + a(2)*x + a(3))
>> title('Quadratic')
```

