An Example Write Up in Matlab

Table of Contents

Solving a Least Squares problem in Matlab	
Initialize the matrix A and desired outputs t.	
Form the normal equations and solve:	
Look at the error	

Solving a Least Squares problem in Matlab

```
Descriptive Sample Text
We can even include LaTeX code (we'll be exporting to Latex later):
```

Initialize the matrix A and desired outputs t.

```
N=100; %Number of points to use
A=[2*randn(N,1)-1, randn(N,1)+2];
t=3*A(:,1)-2*A(:,2)+0.01*randn(N,1);
```

Form the normal equations and solve:

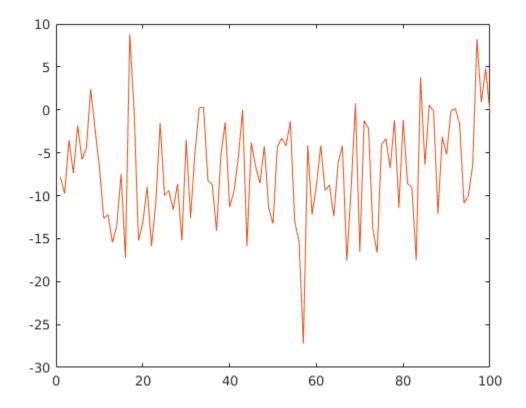
```
c=inv(A'*A)*A'*t
c2=A\t
c =
    2.9999
    -1.9986

c2 =
    2.9999
    -1.9986
```

Look at the error

```
out1=A*c;
out2=A*c2;
```

plot(1:N,out1,1:N,out2)



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