EGME 2050 Computational Methods
Spring 2022

Lab Week 13

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Problem 1: Section 32.7

```
%Assign values for f and x
f=[6,7,8,9];
x=[15,12,9,6];


%Linearize the values
X=log(x);
F=log(f);
N=length(X);


%Solve the linear equation
B=(N*sum(X.*F)-sum(X)*sum(F))/(N*sum(X.^2)-(sum(X))^2);
A=(sum(F)-B*sum(X))/N;


%Resets the function
beta=B
alpha=exp(A)
```

Problem 2: Section 32.8

```
function result = mypolyval(c,x)
%Flips c
c=fliplr(c);
result=[];
P=0;
%Finds the y values for each x, with any size x or c
for i=1:length(x)
    for j=1:n=length(c)
        d=c(j)*x(i)^(j-1);
        P=P+d;
    end
    %Stores each vlaue of y for each value of x
    result=[result P];
    P=0;
end
end
```