

SOLUTIONS FOR LAB 1: PLOTTING DATA WITH MATLAB**EXERCISE (1)**

The following MATLAB commands will generate the baseline plot:

```
>> % vector of years by decade from 1790 through 1990;  
>> t = [1790:10:1990];  
>> % vector of population using logistic model;  
>> P = 197273000./(1+exp(-0.03134*(t-1913.25)));  
>> % vector of population using census data;  
>> Pc = [3929214 5308483 7239881 9638453 12860702 17063353 23191876 31443321  
        38558371 50189209 62979766 76212168 92228496 106021537 123202624  
        132164569 151325798 179323175 203302031 226542199 248709873];  
>> % baseline plot;  
>> plot(t,P,t,Pc);
```

The following plot was generated using the Property Editor:



