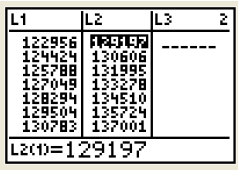


### Scatter Plots on the Calculator

**13. Population** Use the data at the right.  
a. Graph the data for the male and female populations of the United States.

First, input data into the calculator by following the key strokes provided. The input screen will appear and should look like the one provided once the data is entered.



Estimated Population of the United States (thousands)		
Year	Male	Female
1991	122,956	129,197
1992	124,624	130,606
1993	125,788	131,995
1994	127,049	133,278
1995	128,294	134,510
1996	129,504	135,724
1997	130,763	137,001
1998	132,030	138,218
1999	133,277	139,414
2000	134,054	141,368

Source: U.S. Census Bureau. Go to [www.census.gov](http://www.census.gov) for a data update. Web Code 029-9841

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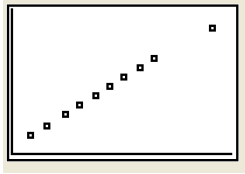
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Once the data is entered, you will need to graph the data on the calculator. The key strokes are as follows. And the resulting graph is provided in order to check your work.

Y=
▲
ENTER
ZOOM
9



If Plot1 is already highlighted, you may skip these key strokes: ▲ ENTER

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b. Find the equation of a trend line.

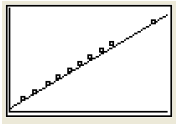
To calculate the trend line on the calculator and force the calculator to input that equation into "Y1=" follow the key strokes provided. Various screen shots are provided in order to check your work:

STAT
➤
4
VAR
➤
ENTER

ENTER
ENTER

```
LinReg
y=ax+b
a=.95
b=11968.70
```

```
Y1= Plot1 Plot2
√1.595X+11968.7
√2=
√3=
√4=
√5=
√6=
```



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