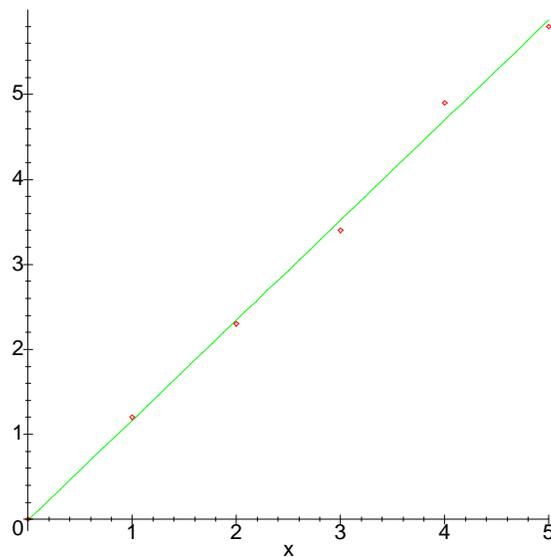


MAPLE SAMPLE PROBLEM

Given a set of data points, $(x,y) \rightarrow (0, 0), (1,1.2), (2, 2.3), (3, 3.4), (4, 4.9)$ and $(5, 5.8)$, the following Maple program establishes the best straight line fit through these data points;

You may want to use a similar approach while working on the Maple assignment for this term. The assignment appears under the Assignments page of our web site.

```
STUDENT > with(stats):  
STUDENT > fit[leastsquare][y,x],y=a*x+b,{a,b}]([0,1.2,2.3,3.4,4.9,  
5.8],[0,1,2,3,4,5]);  
y =1.177142857 x -.009523809524  
STUDENT > L:=[[0,0],[1,1.2],[2,2.3],[3,3.4],[4,4.9],[5,5.8]];  
L := [[0, 0], [1, 1.2], [2, 2.3], [3, 3.4], [4, 4.9], [5, 5.8]]  
STUDENT > plot([L,  
1.177142857*x-.9523809524e-2],x=0..5,style=[point,line]);
```



```
STUDENT >
```