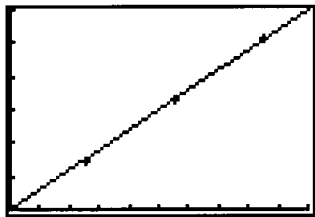


[0, 100, 10] by [0, 6, 1]



*Figure 57*

- [57] Since  $y$  is directly proportional to  $x$ , the variation equation  $y = kx$  must hold. To find the value of  $k$  use the values  $y = 1.50$  when  $x = 25$  from the table. Solve the equation  $1.50 = k(25) \Rightarrow k = 0.06$ . The variation equation is  $y = 0.06x$  and hence when  $y = 5.10$ ,  $x = \frac{5.10}{0.06} = 85$ . A graph of  $Y_1 = 0.06X$  together with the data points is shown in *Figure 57*.