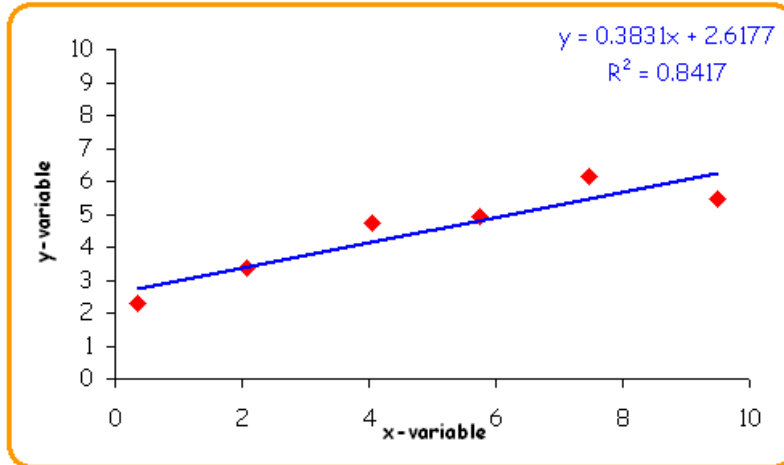
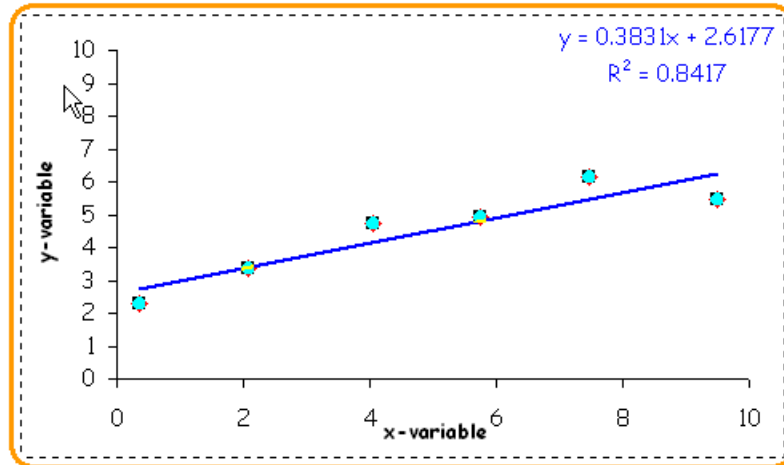


### Drag-and-drop of data points

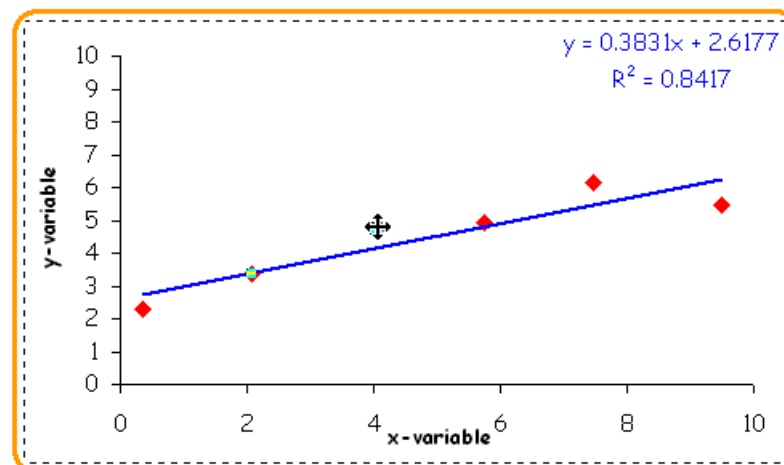
Another interactive tool to use on graphs is the drag-and-drop method to change the value of a datum point. Regressions and any functions calculated from the data set will then respond to the change.



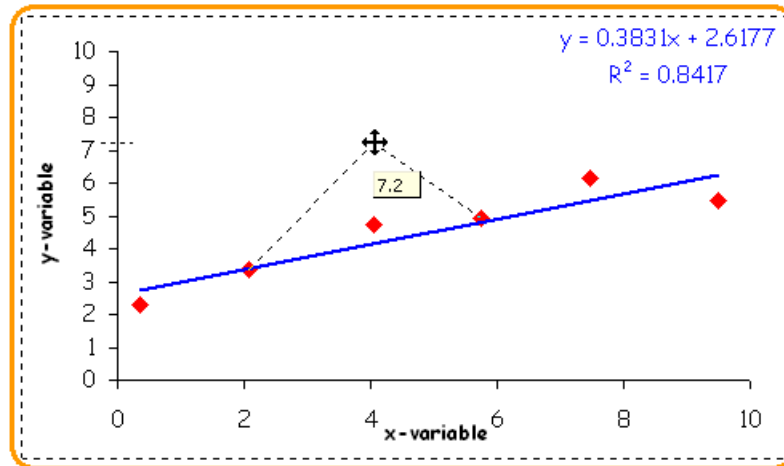
If you click on any one of the red data points, you will highlight the whole series.



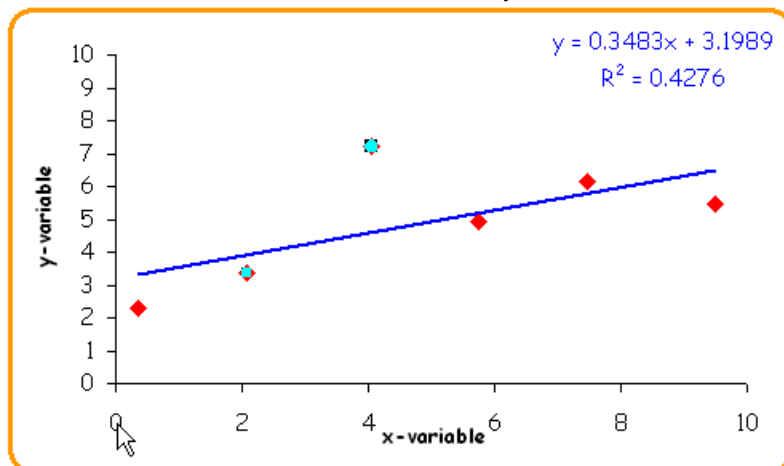
If you click again on any point (this is not a double click), the cursor will change from the arrow to a cross.



Now if you click and hold, you will notice the guidelines to the two nearest points appear and you can drag the point either vertically up and down or horizontally left or right. You can move any of the points on the graph.



When you release the click, the point is re-plotted and the regression responds. To help see the response of the graph, the scales on both axes have been fixed (autoscale deselected for minimum and maximum).



This is a great way to show the effect of outliers and their influence on regression fits.

See [Using Interactive Visualisation to Develop Statistical Understanding](#) by Richard Castle for a discussion of using drag-and-drop method and a number of [Excel spreadsheet](#) examples he has produced for use in introductory statistics including an interactive box-and-whisker plot.