

Day #7: Figures

seanteachesmath

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1 Raw data

The graph in Figure 1 displays the relationship between measurements x and y . It appears that the relationship between x and y is a linear one, so we might try to find a trend line that is representative of the data.

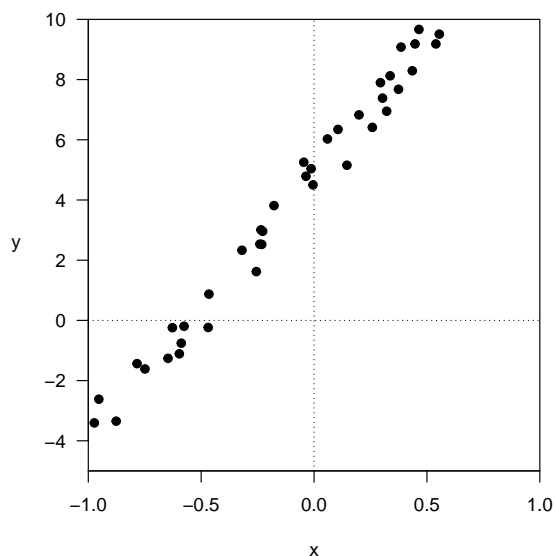


Figure 1: A graph of some data.

Using some specialty software, we have found a formula for the trend line or line of best fit using a technique called linear regression. In Figure 2, we plot the data and corresponding trend line.

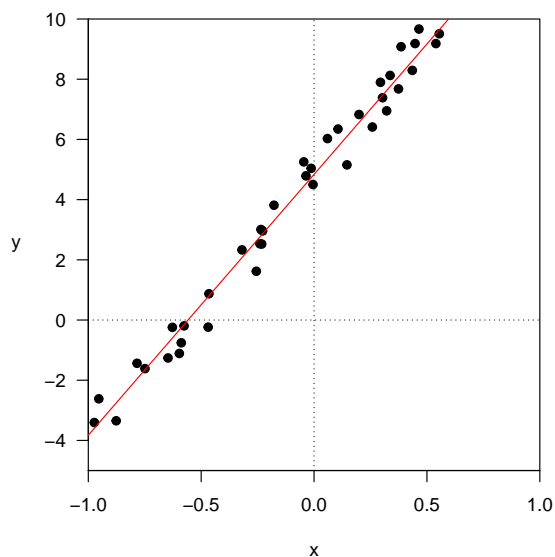


Figure 2: A graph of some data and the trend line.

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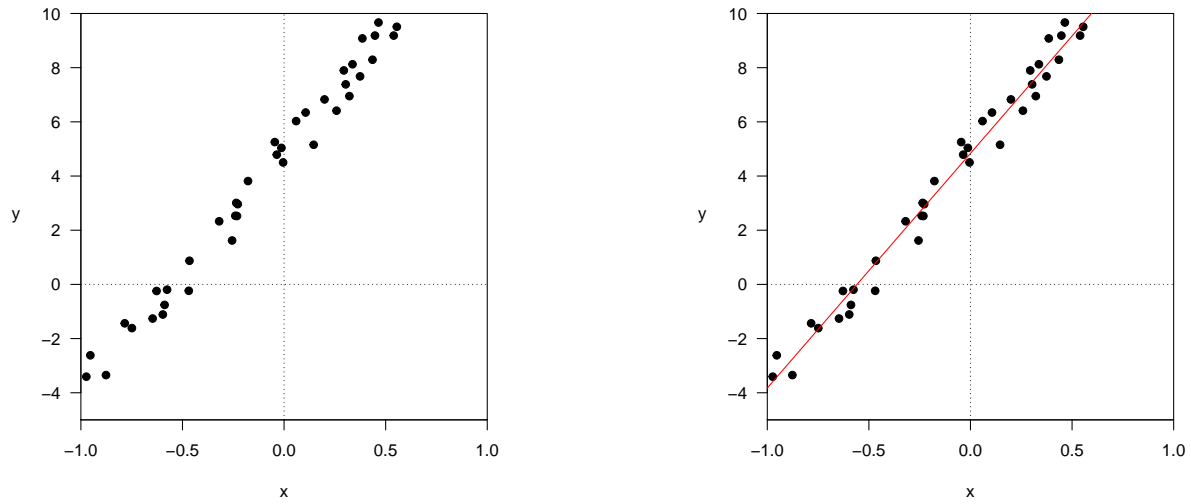


Figure 3: Left: data, Right: data and trend.