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4.13 Non-linear regression

Checklist

What you should know

By the end of this subtopic you should be able to:

- create linear, quadratic, cubic, exponential, power, and sine regression models using technology

- calculate the sum of square residuals for a linear model

- use the sum of square residuals as a measure of fit for a model

- evaluate the coefficient of determination (R^2) using technology

- interpret the meaning of the coefficient of determination as the proportion of variability in the responsive variable accounted for by the chosen model

- analyse various factors, including the coefficient of determination, to determine whether a certain model is the best fit for a given data set.

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