Bessel’s Interpolation Example

Find f(x) at x=27.4 from following data:

x: 25 26 27 28 29 30

f(x): 4.000 3.846 3.704 3.571 3.448 3.333

Construct Bessel Interpolation Table:

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Bessel’s formula:

Where:

– value of x for which the f(x) needs to be found

– value above/below x in the x vector

– interval gap

Solution:

Notes:

* Bessel’s is used to interpolate near the centre.
* The interval gap must be fixed.