

Aufgabe2_3

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The first plot is done by using only 5 interpolation values, which seems to be too few values to get an good result. Also with that few values, the linear distribution has better results, because there is no extrem behaviour on the far sites of the range.

With 12 values the function can be better interpolated, but also the oscillation grows, with lineare distribution.

With 22 interpolataion values the tschebyscheff distribution is supperior to the lineare distribution. To the range borders, there are more interpolation values than in the center, so the extrem behaviour of an polynomial with degree 20 can be handeled.

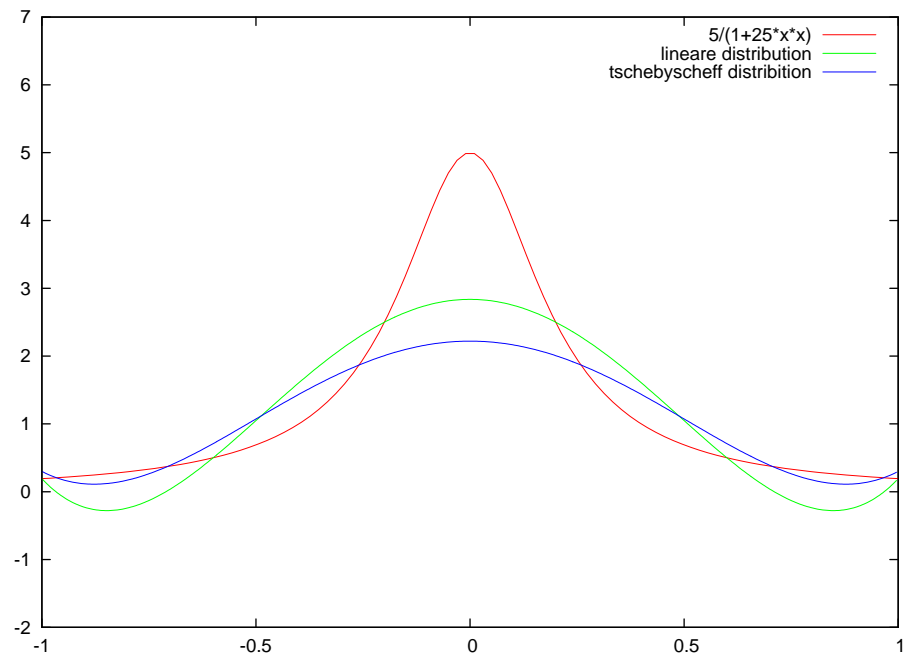


Abbildung 1: Results using 5 interpolation values

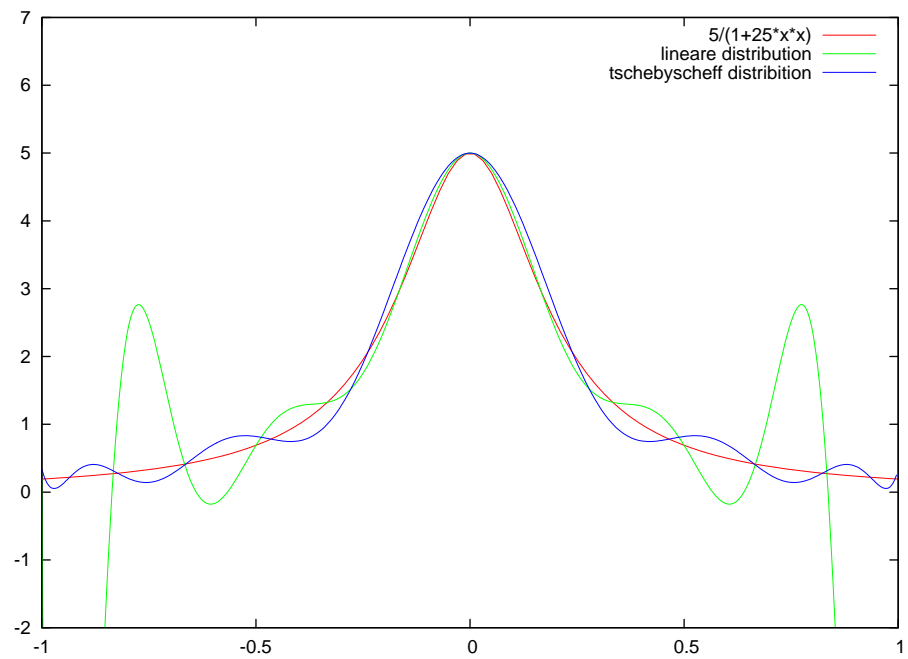


Abbildung 2: Results using 12 interpolation values

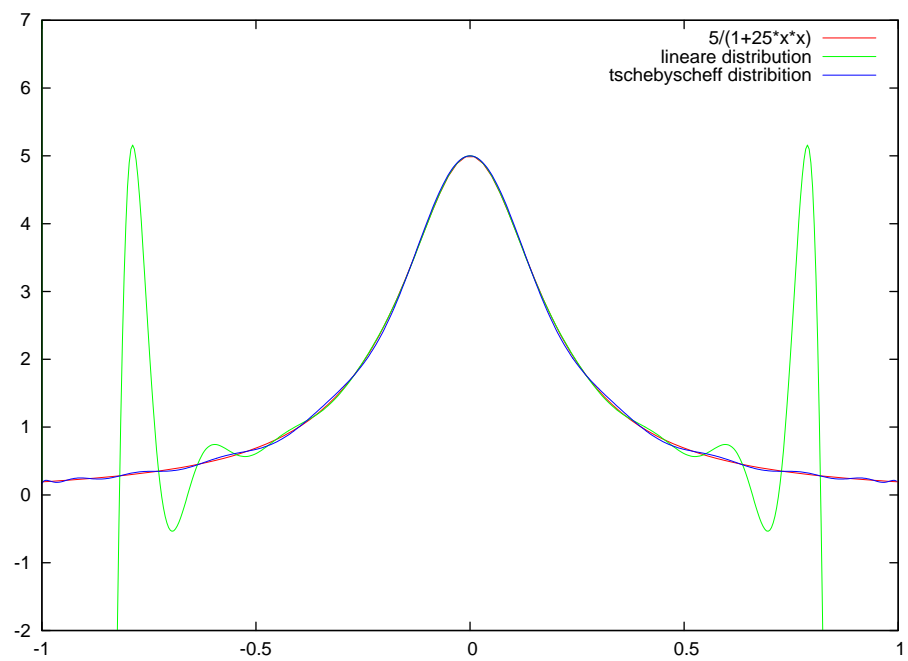


Abbildung 3: *Results using 22 interpolation values*