## Handbook on special functions

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## $\S 1.$ Elementary functions and some constants

**Absolute** value |x| and **sign** function sgn x.

Interpolation between linear and exponential function  $[x]_q = \frac{q^x - 1}{q - 1}$ , where  $q \ge 1$ , so that  $[x]_1 = x$ .