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The cumulative hazard function
for the Weibull is the integral of
the failure rate or

8.1.6.2. Weibull

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Cumulative distribution function.

The cumulative distribution

function for the Weibull

distribution is. $F (x ; k , \lambda) = 1 -$

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$$F(x; k, \lambda) = 1 - e^{-\left(\frac{x}{\lambda}\right)^k}$$
 for $x \geq 0$,
and $F(x; k; \lambda) = 0$ for $x < 0$. If $x = \lambda$ then $F(x; k; \lambda) = 1 - e^{-1} \approx 0.632$ for all values of k .

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