

StatsGammaPDF

StatsGammaPDF(*x*, *μ*, *σ*, *γ*)

The StatsGammaPDF function returns the gamma probability distribution function

$$f(x; \mu, \sigma, \gamma) = \frac{\left(\frac{x - \mu}{\sigma}\right)^{\gamma-1} \exp\left(-\frac{x - \mu}{\sigma}\right)}{\sigma \Gamma(\gamma)}, \quad \begin{matrix} x \geq \mu \\ \sigma, \gamma > 0 \end{matrix}$$

where *μ* is the location parameter, *σ* is the scale parameter, *γ* is the shape parameter, and *Γ* is the gamma function.

See Also

Chapter III-12, **Statistics** for a function and operation overview; **StatsGammaCDF** and **StatsInvGammaCDF**.

StatsGeometricCDF

StatsGeometricCDF(*x*, *p*)

The StatsGeometricCDF function returns the geometric cumulative distribution function

$$F(x, p) = 1 - (1 - p)^{x+1}.$$

where *p* is the probability of success in a single trial and *x* is the number of trials for *x* ≥ 0.

See Also

Chapter III-12, **Statistics** for a function and operation overview; **StatsGeometricPDF** and **StatsInvGeometricCDF**.

StatsGeometricPDF

StatsGeometricPDF(*x*, *p*)

The StatsGeometricPDF function returns the geometric probability distribution function

$$f(x, p) = p(1 - p)^x,$$

where the *p* is the probability of success in a single trial and *x* is the number of trials *x* ≥ 0.

See Also

Chapter III-12, **Statistics** for a function and operation overview; **StatsGeometricCDF** and **StatsInvGeometricCDF**.

StatsHodgesAjneTest

StatsHodgesAjneTest [*flags*] *srcWave*

The StatsHodgesAjneTest operation performs the Hodges-Ajne nonparametric test for uniform distribution around a circle. Output is to the W_HodgesAjne wave in the current data folder or optionally to a table.

Flags

/ALPH = <i>val</i>	Sets the significance level (default <i>val</i> =0.05).
/Q	No results printed in the history area.
/SA= <i>specAngle</i>	Uses the Batschelet modification of the Hodges-Ajne test to test for uniformity against the alternative of concentration around the specified angle. <i>specAngle</i> must be expressed in radians modulus 2π.