

"i is", 9,

"-----"
"-----"

$$g:=t\rightarrow \ln(t+1)$$

$$l:=0$$

$$u:=\infty$$

$$Temp:=\left[\left[y\rightsquigarrow\frac{\sqrt{\frac{1}{e^{y\sim}-1}}\,e^{-\frac{1}{9}\frac{e^{2y\sim}-9y\sim e^{y\sim}-8e^{y\sim}+9y\sim+16}}{e^{y\sim}-1}}}{\sqrt{\pi}\,|e^{y\sim}-1|}\right],\left[0,\,\infty\right],\left["Continuous",\right.\\ \left."PDF"\right]\right]$$

"l and u", 0, ∞

$$\text{"g(x)", }\ln(x+1), \text{"base", }\sqrt{\frac{1}{\pi x^3}}\,e^{-\frac{1}{9}\frac{(x-3)^2}{x}}, \text{"InverseGaussianRV(2,3)"}$$

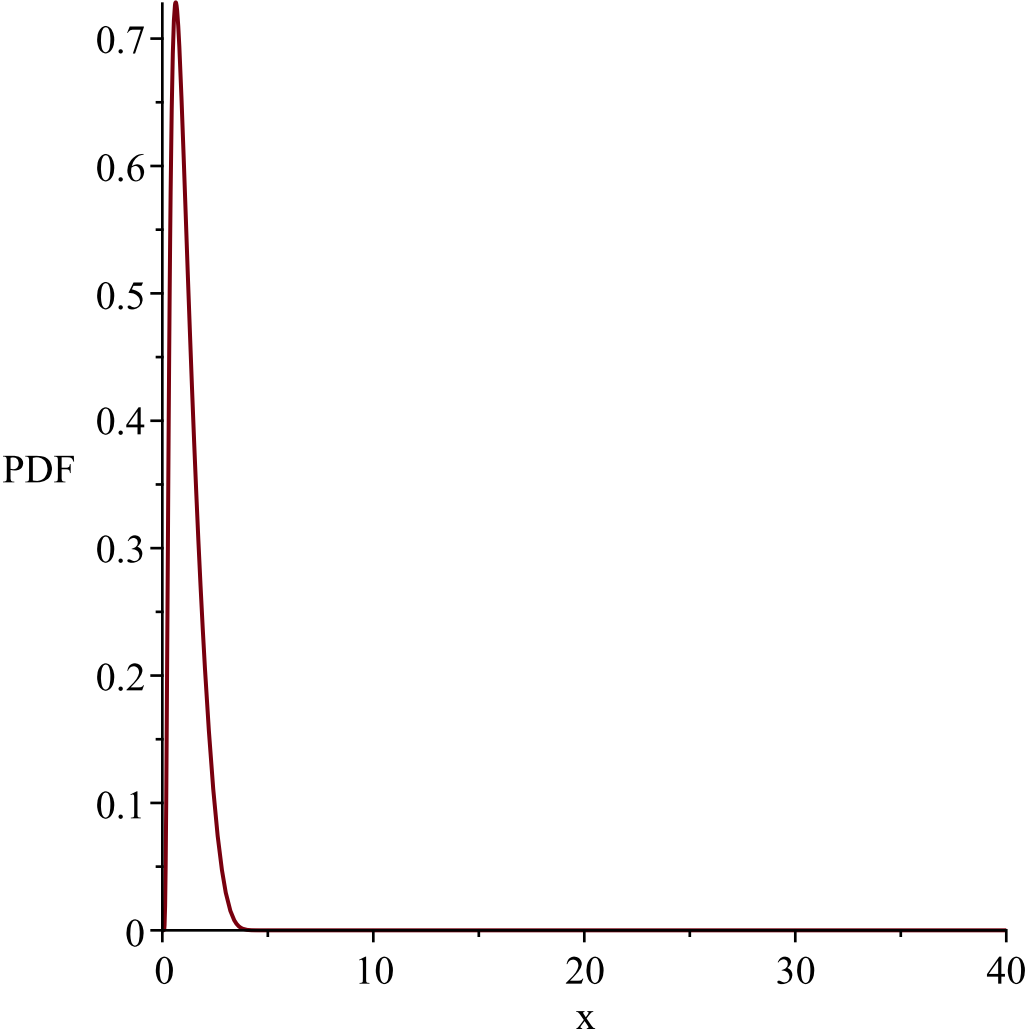
$$\text{"f(x)", }\frac{\sqrt{\frac{1}{e^x-1}}\,e^{-\frac{1}{9}\frac{e^{2x}-9xe^x-8e^x+9x+16}}{e^x-1}}{\sqrt{\pi}\,|e^x-1|}$$

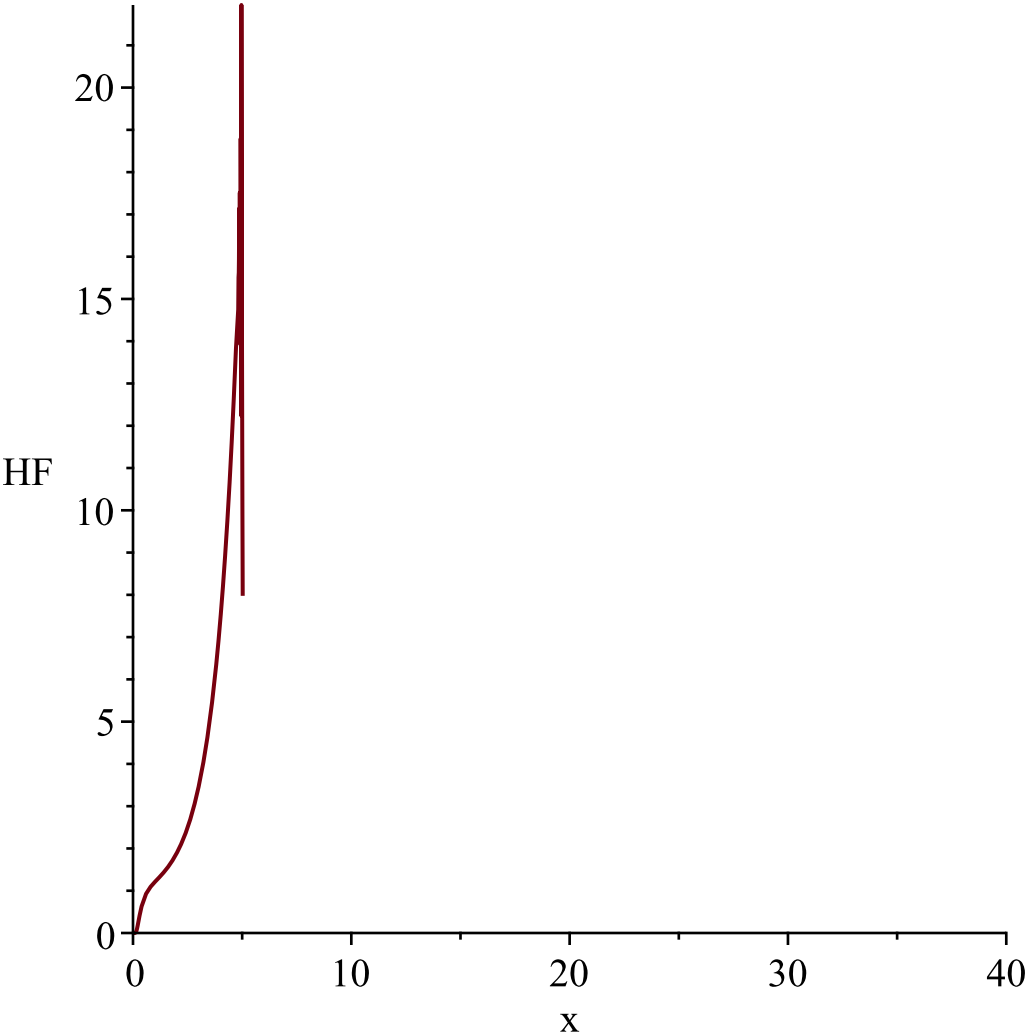
$$\text{"S(x)", }-\frac{-\sqrt{\pi}+\int_0^x\frac{\sqrt{\frac{1}{e^t-1}}\,e^{-\frac{1}{9}\frac{e^{2t}-9te^t-8e^t+9t+16}}{e^t-1}}{|e^t-1|}\,dt}{\sqrt{\pi}}$$

$$\text{"h(x)", }-\frac{\sqrt{\pi}}{|e^x-1|\left(-\sqrt{\pi}+\int_0^x\frac{\sqrt{\frac{1}{e^t-1}}\,e^{-\frac{1}{9}\frac{e^{2t}-9te^t-8e^t+9t+16}}{e^t-1}}{|e^t-1|}\,dt\right)}$$

"mean and variance",

$$\int_0^{\infty} \frac{x e^{-\frac{1}{9} \frac{e^{2x} - 9xe^x - 8e^x + 9x + 16}{e^x - 1}}}{\sqrt{\pi} (e^x - 1)^{3/2}} dx, \int_0^{\infty} \frac{x^2 e^{-\frac{1}{9} \frac{e^{2x} - 9xe^x - 8e^x + 9x + 16}{e^x - 1}}}{\sqrt{\pi} (e^x - 1)^{3/2}} dx - \left(\int_0^{\infty} \frac{x e^{-\frac{1}{9} \frac{e^{2x} - 9xe^x - 8e^x + 9x + 16}{e^x - 1}}}{\sqrt{\pi} (e^x - 1)^{3/2}} dx \right)^2$$





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{\frac {\sqrt { \left( {{\rm e}^{\mathrm{x}}}-1 \right) ^{-1}}}{\sqrt {\pi} \left| {{\rm e}^{\mathrm{x}}}-1 \right| }}{{\rm e}^{-1/9}},{\frac {{{\rm e}^{2\mathrm{x}}}-9\mathrm{x}}{{\rm e}^{\mathrm{x}}}-8\mathrm{x}+9\mathrm{x}+16}}{{{\rm e}^{\mathrm{x}}}-1}}}}
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"i is", 10,
" -----
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$$g := t \rightarrow \frac{1}{\ln(t+2)}$$
$$l := 0$$
$$u := \infty$$

$$Temp := \left[\left[y \sim \rightarrow \sqrt{\frac{\frac{1}{e^{y \sim} - 2}}{\frac{1}{e^{y \sim} - 2}}} e^{-\frac{1}{9} \frac{\frac{2}{e^{y \sim} y \sim} - 10 \frac{1}{e^{y \sim} y \sim} - 9 \frac{1}{e^{y \sim}} + 25 y \sim + 18}{\left(\frac{1}{e^{y \sim} - 2}\right)_{y \sim}}} \right], \left[0, \frac{1}{\ln(2)} \right], \right.$$

["Continuous", "PDF"]

"l and u", 0, ∞

$$\text{"g(x)", } \frac{1}{\ln(x+2)}, \text{"base", } \sqrt{\frac{1}{\pi x^3}} e^{-\frac{1}{9} \frac{(x-3)^2}{x}}, \text{"InverseGaussianRV(2,3)"}$$

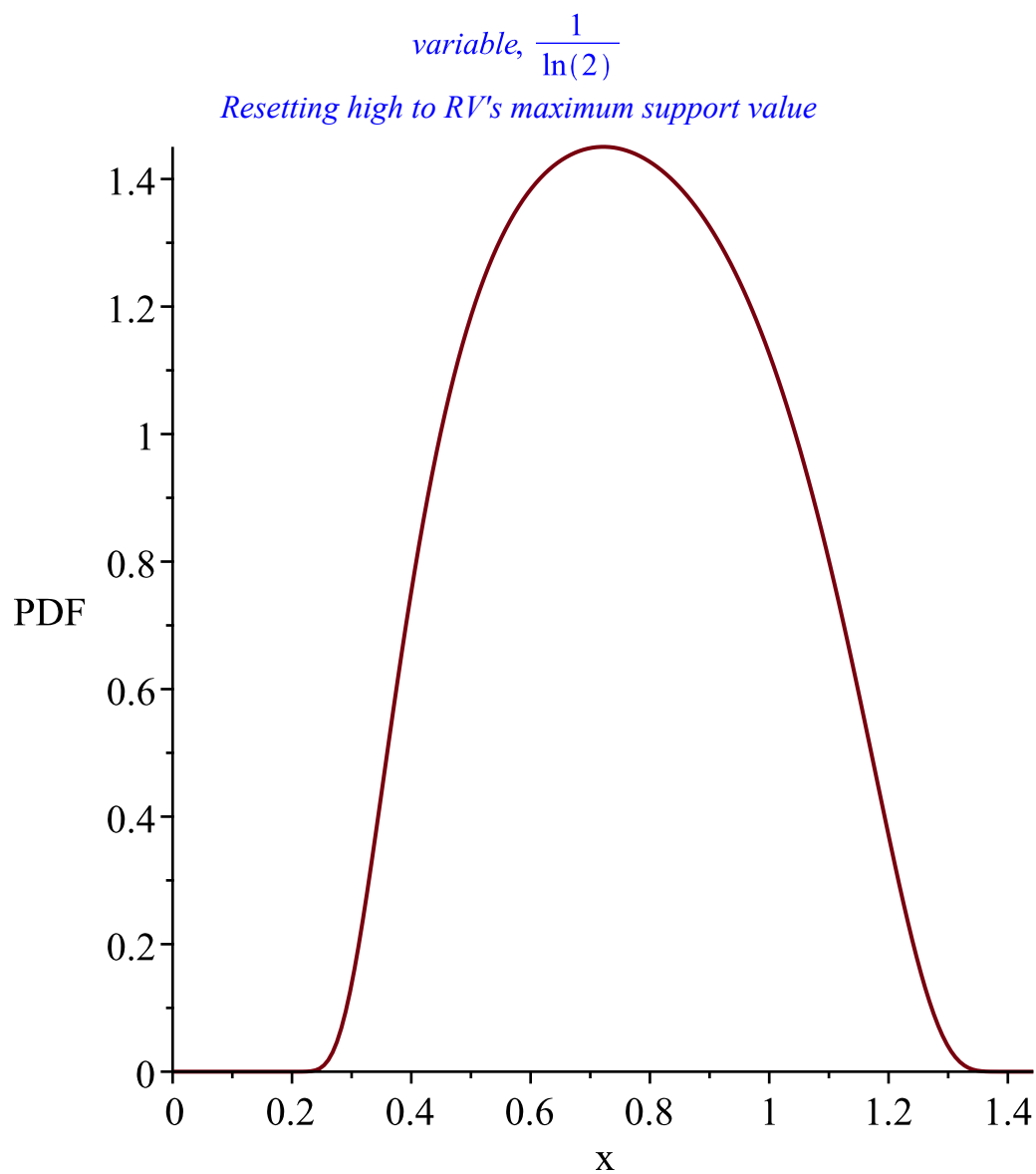
$$\text{"f(x)", } \sqrt{\frac{\frac{1}{e^x - 2}}{\frac{1}{e^x - 2}}} e^{-\frac{1}{9} \frac{\frac{2}{e^x x} - 10 \frac{1}{e^x x} - 9 \frac{1}{e^x} + 25 x + 18}{\left(\frac{1}{e^x - 2}\right)_x}} \sqrt{\pi} x^2 \left| e^{\frac{1}{x}} - 2 \right|$$

$$\text{"S(x)", } \frac{\sqrt{\pi} - \left(\int_0^x \sqrt{\frac{\frac{1}{e^t - 2}}{\frac{1}{e^t - 2}}} e^{-\frac{1}{9} \frac{\frac{2}{e^t t} - 10 \frac{1}{e^t t} - 9 \frac{1}{e^t} + 25 t + 18}{\left(\frac{1}{e^t - 2}\right)_t}} dt \right)}{t^2 \left| e^{\frac{1}{t}} - 2 \right|} \sqrt{\pi}$$

$$\begin{aligned}
& \text{"h(x)", } \frac{\sqrt{\frac{1}{e^{\frac{1}{x}} - 2}} e^{-\frac{1}{9} \frac{\frac{2}{e^x} x - 10 \frac{1}{e^x} x - 9 \frac{1}{e^x} + 25x + 18}{\left(\frac{1}{e^x} - 2\right)_x}}}{x^2 \left| e^{\frac{1}{x}} - 2 \right| \left(\sqrt{\pi} - \int_0^x \frac{\sqrt{\frac{1}{e^{\frac{1}{t}} - 2}} e^{-\frac{1}{9} \frac{\frac{2}{e^t} t - 10 \frac{1}{e^t} t - 9 \frac{1}{e^t} + 25t + 18}{\left(\frac{1}{e^t} - 2\right)_t}}}{t^2 \left| e^{\frac{1}{t}} - 2 \right|} dt \right)} \\
& \text{"mean and variance", } \frac{\int_0^{\frac{1}{\ln(2)}} \frac{e^{-\frac{1}{9} \frac{\frac{2}{e^x} x - 10 \frac{1}{e^x} x - 9 \frac{1}{e^x} + 25x + 18}{\left(\frac{1}{e^x} - 2\right)_x}}}{x \left(e^{\frac{1}{x}} - 2 \right)^{3/2}} dx}{\sqrt{\pi}}, \frac{1}{\pi^{3/2}} \left(\right.
\end{aligned}$$

$$\begin{aligned}
& - \left(\int_0^{\frac{1}{\ln(2)}} \frac{e^{-\frac{1}{9} \frac{\frac{2}{e^x} x - 10 \frac{1}{e^x} x - 9 \frac{1}{e^x} + 25x + 18}{\left(\frac{1}{e^x} - 2\right)_x}}}{x \left(e^{\frac{1}{x}} - 2 \right)^{3/2}} dx \right)^2 \sqrt{\pi} + \left(\int_0^{\frac{1}{\ln(2)}} \frac{e^{-\frac{1}{9} \frac{\frac{2}{e^x} x - 10 \frac{1}{e^x} x - 9 \frac{1}{e^x} + 25x + 18}{\left(\frac{1}{e^x} - 2\right)_x}}}{\left(e^{\frac{1}{x}} - 2 \right)^{3/2}} dx \right) \pi \left. \right)
\end{aligned}$$

WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random



*WARNING(PlotDist): High value provided by user, 40
is greater than maximum support value of the random*

variable, $\frac{1}{\ln(2)}$

Resetting high to RV's maximum support value

Warning, computation interrupted

[>