

"i is", 18,

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

$$g:=t\rightarrow \frac{1}{\operatorname{arcsinh}(t+1)}$$

$$l:=0$$

$$u:=\infty$$

$$Temp:=\left[\left[\left[y\rightsquigarrow\sqrt{\frac{\frac{1}{-1+\sinh\left(\frac{1}{y\sim}\right)}}{e^{-\frac{1}{9}\frac{\left(-4+\sinh\left(\frac{1}{y\sim}\right)\right)^2}{-1+\sinh\left(\frac{1}{y\sim}\right)}}\cosh\left(\frac{1}{y\sim}\right)}}}\right],\left[0,\right.\right.$$

$$\left.\frac{1}{\ln(1+\sqrt{2})}\right],\left["\text{Continuous}","\text{PDF}"]\right]$$

$$"\text{l and u}",0,\infty$$

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

$$"\text{f(x)}",\frac{\sqrt{\frac{\frac{1}{-1+\sinh\left(\frac{1}{x}\right)}}{e^{-\frac{1}{9}\frac{\left(-4+\sinh\left(\frac{1}{x}\right)\right)^2}{-1+\sinh\left(\frac{1}{x}\right)}}\cosh\left(\frac{1}{x}\right)}}}}{\sqrt{\pi}x^2\left|-1+\sinh\left(\frac{1}{x}\right)\right|}$$

$$"\text{S(x)}",\frac{\sqrt{\pi}-\left(\int\limits_0^x\sqrt{\frac{\frac{1}{-1+\sinh\left(\frac{1}{t}\right)}}{e^{-\frac{1}{9}\frac{\left(-4+\sinh\left(\frac{1}{t}\right)\right)^2}{-1+\sinh\left(\frac{1}{t}\right)}}\cosh\left(\frac{1}{t}\right)}}}\frac{dt}{t^2\left|-1+\sinh\left(\frac{1}{t}\right)\right|}\right)}{\sqrt{\pi}}$$

"h(x)",

$$-\left(\sqrt{\frac{1}{-1+\sinh\left(\frac{1}{x}\right)}}e^{-\frac{1}{9}\frac{\left(-4+\sinh\left(\frac{1}{x}\right)\right)^2}{-1+\sinh\left(\frac{1}{x}\right)}}\cosh\left(\frac{1}{x}\right)\right)$$

$$+ \sinh\left(\frac{1}{x}\right)\left(-\sqrt{\pi}+\frac{\int_0^x\sqrt{\frac{1}{-1+\sinh\left(\frac{1}{t}\right)}}e^{-\frac{1}{9}\frac{\left(-4+\sinh\left(\frac{1}{t}\right)\right)^2}{-1+\sinh\left(\frac{1}{t}\right)}}\cosh\left(\frac{1}{t}\right)dt}{t^2\left|-1+\sinh\left(\frac{1}{t}\right)\right|}\right)$$

$$\frac{\frac{1}{\ln(1+\sqrt{2})}\frac{\frac{1}{9}\frac{-\cosh\left(\frac{1}{x}\right)^2+8\sinh\left(\frac{1}{x}\right)-15}{-1+\sinh\left(\frac{1}{x}\right)}e^{\frac{\cosh\left(\frac{1}{x}\right)}{\left(-1+\sinh\left(\frac{1}{x}\right)\right)^{3/2}x}}dx}{\sqrt{\pi}},\frac{1}{\pi^{3/2}}\left(\right)$$

$$x^2\Big|-1$$

$$\frac{1}{\pi^{3/2}}\left(\right)$$

"mean and variance",

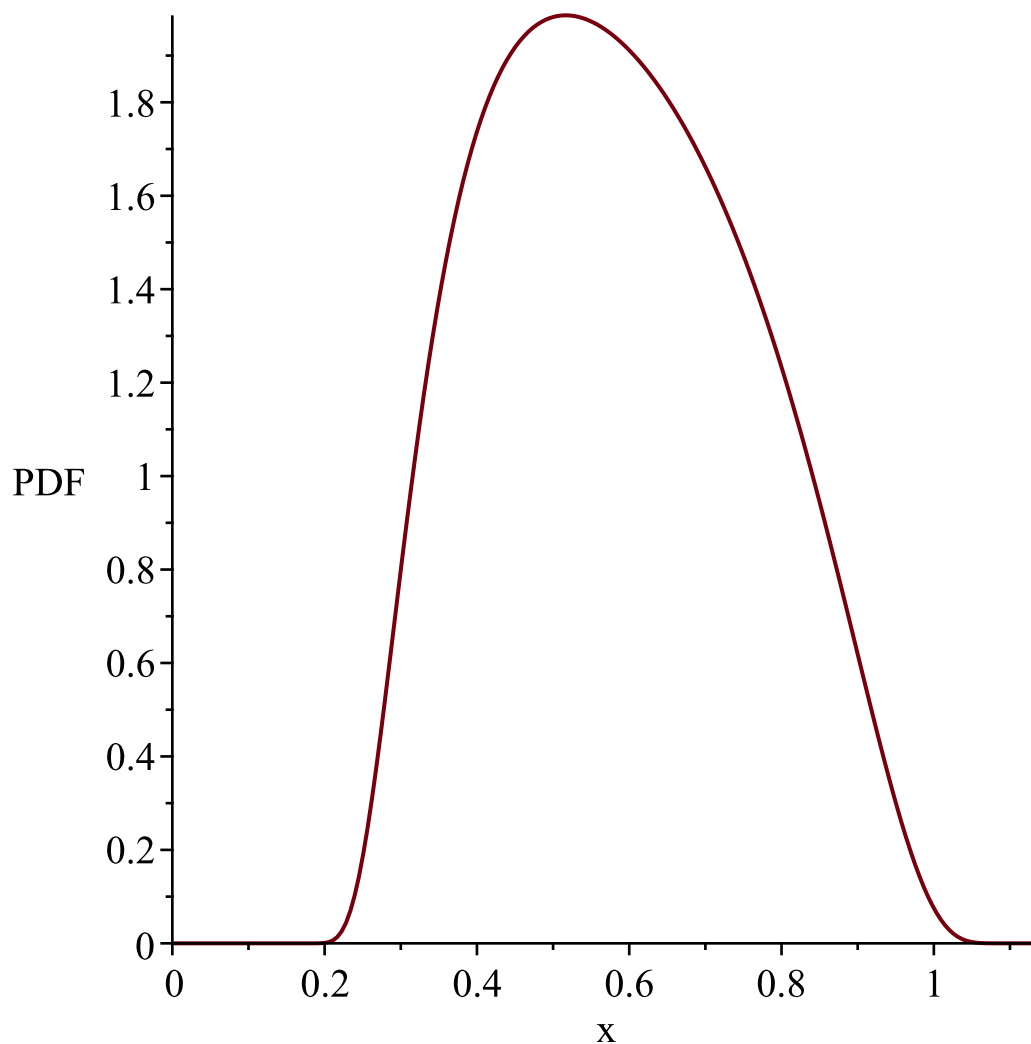
$$-\left(\frac{1}{\ln(1+\sqrt{2})}\frac{\frac{1}{9}\frac{-\cosh\left(\frac{1}{x}\right)^2+8\sinh\left(\frac{1}{x}\right)-15}{-1+\sinh\left(\frac{1}{x}\right)}e^{\frac{\cosh\left(\frac{1}{x}\right)}{\left(-1+\sinh\left(\frac{1}{x}\right)\right)^{3/2}x}}dx\right)^2\left(\sqrt{\pi}+\right)$$

$$\int_0^{\frac{1}{\ln(1+\sqrt{2})}} \frac{\frac{1}{9} \frac{-\cosh\left(\frac{1}{x}\right)^2 + 8 \sinh\left(\frac{1}{x}\right) - 15}{-1 + \sinh\left(\frac{1}{x}\right)} \cosh\left(\frac{1}{x}\right)}{e^{\frac{\cosh\left(\frac{1}{x}\right)}{\left(-1 + \sinh\left(\frac{1}{x}\right)\right)^{3/2}}} dx} \pi$$

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

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

Resetting high to RV's maximum support value



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

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

Resetting high to RV's maximum support value

Warning, computation interrupted

[>