"i is", 17,

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

$$g := t \to \frac{1}{\sinh(t+1)}$$

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[\left[y\sim \right.\right.\right.$$

$$\left.\left.\left. \to \frac{\sqrt{\frac{1}{-1+\operatorname{arcsinh}\left(\frac{1}{y\sim}\right)}}\ e^{-\frac{1}{9}\frac{\left(-4+\operatorname{arcsinh}\left(\frac{1}{y\sim}\right)\right)^2}{-1+\operatorname{arcsinh}\left(\frac{1}{y\sim}\right)}}\left|\frac{1}{y\sim\left(-1+\operatorname{arcsinh}\left(\frac{1}{y\sim}\right)\right)}\right|}{\sqrt{\pi}\sqrt{y\sim^2+1}} \right], \left[0, \right.\right.\right.$$

$$\left.\left.\left. \frac{2}{e - e^{-1}} \right], ["Continuous", "PDF"] \right.\right.\right]$$

"l and u", 0, ∞

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

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

"S(x)",

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

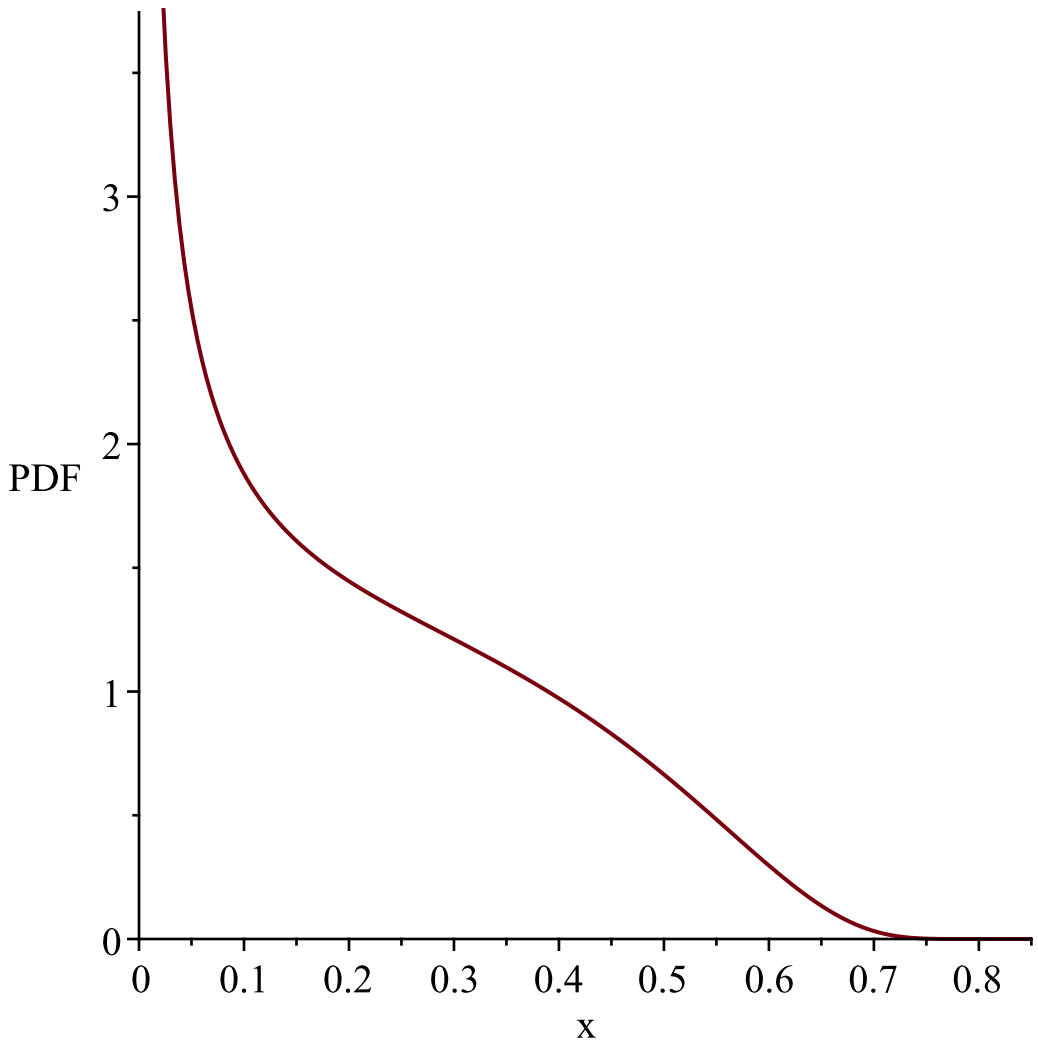
"h(x)",

$$\left(\sqrt{\frac{1}{-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)}}\, e^{-\frac{1}{9}\frac{\left(-4+\operatorname{arcsinh}\left(\frac{1}{x}\right)\right)^2}{-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)}}\left|\frac{1}{x\left(-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)\right)}\right|\right)\Big/\left(\sqrt{x^2+1}\left(\sqrt{\pi}-\left(\int_0^x \frac{\sqrt{\frac{1}{-1+\operatorname{arcsinh}\left(\frac{1}{t}\right)}}\, e^{-\frac{1}{9}\frac{\left(-4+\operatorname{arcsinh}\left(\frac{1}{t}\right)\right)^2}{-1+\operatorname{arcsinh}\left(\frac{1}{t}\right)}}\left|\frac{1}{t\left(-1+\operatorname{arcsinh}\left(\frac{1}{t}\right)\right)}\right|}{\sqrt{t^2+1}}\,dt\right)\right)\right)$$

$$\text{"mean and variance"}, \frac{\int_0^{\frac{2e}{e^2-1}} \frac{\sqrt{\frac{1}{-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)}}\, e^{-\frac{1}{9}\frac{\left(-4+\operatorname{arcsinh}\left(\frac{1}{x}\right)\right)^2}{-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)}}}{\sqrt{x^2+1}\left|-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)\right|}\,dx}{\sqrt{\pi}}, \frac{1}{\pi^{3/2}}\left(-\left(\int_0^{\frac{2e}{e^2-1}} \frac{\sqrt{\frac{1}{-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)}}\, e^{-\frac{1}{9}\frac{\left(-4+\operatorname{arcsinh}\left(\frac{1}{x}\right)\right)^2}{-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)}}}{\sqrt{x^2+1}\left|-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)\right|}\,dx\right)^2\sqrt{\pi}+\left(\int_0^{\frac{2e}{e^2-1}} \frac{x\sqrt{\frac{1}{-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)}}\, e^{-\frac{1}{9}\frac{\left(-4+\operatorname{arcsinh}\left(\frac{1}{x}\right)\right)^2}{-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)}}}{\sqrt{x^2+1}\left|-1+\operatorname{arcsinh}\left(\frac{1}{x}\right)\right|}\,dx\right)\pi\right)$$

WARNING(PlotDist): High value provided by user, 40 *is greater than maximum support value of the random variable,* $\frac{2}{e-e^{-1}}$

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,* $\frac{2}{e - e^{-1}}$

Resetting high to RV's maximum support value

Warning, computation interrupted

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