"i is", 13,

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

$$g := t \to \operatorname{arcsinh}(t)$$

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y\sim \to \frac{\operatorname{signum}(y\sim)\sqrt{\frac{1}{\sinh(y\sim)}}\, e^{-\frac{1}{9}\frac{(\sinh(y\sim)-3)^2}{\sinh(y\sim)}}\cosh(y\sim)}{\sinh(y\sim)\sqrt{\pi}}\right], [0, \infty],\right.$$

$$\left.["\text{Continuous}", "\text{PDF}"]\right]$$

"l and u", 0, ∞

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

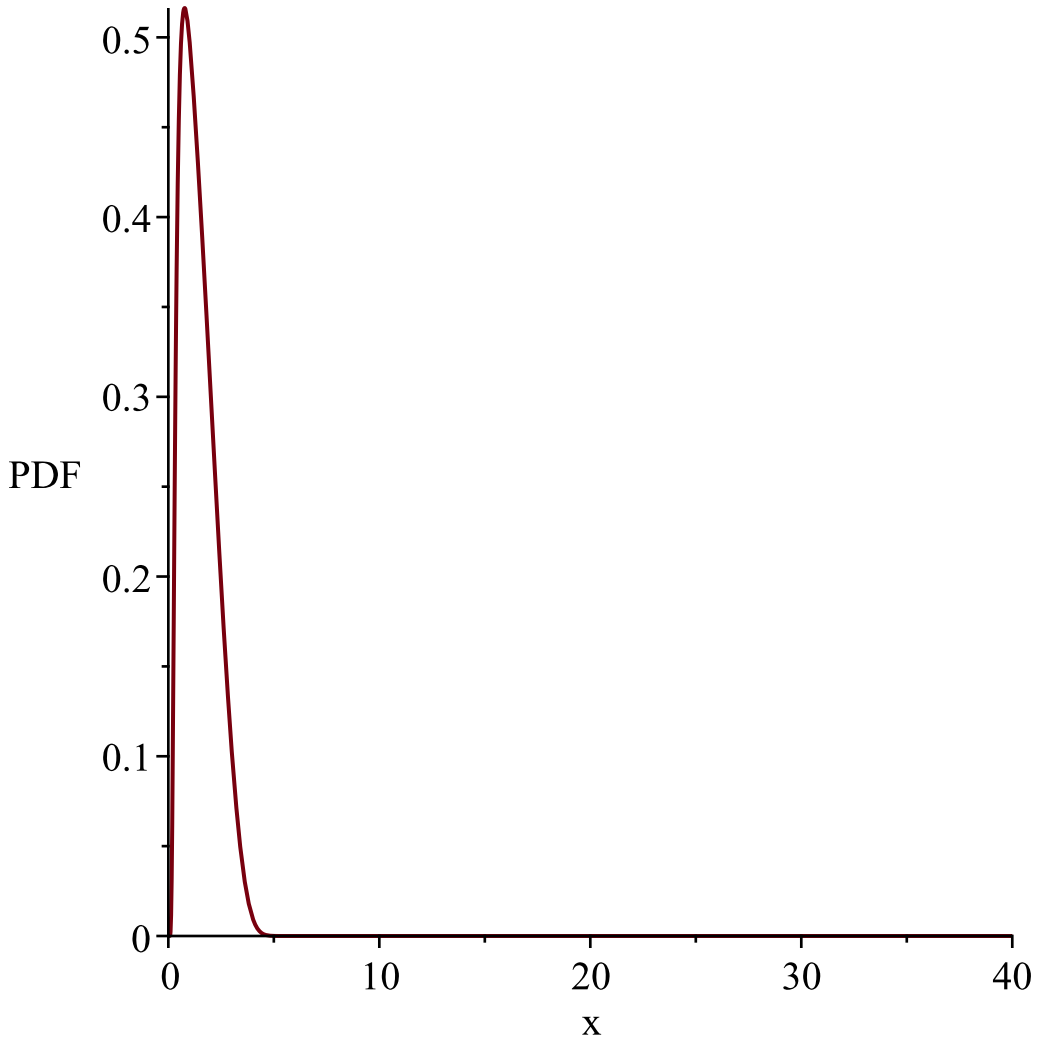
"f(x)", $\frac{\operatorname{signum}(x)\sqrt{\frac{1}{\sinh(x)}}\, e^{-\frac{1}{9}\frac{(\sinh(x)-3)^2}{\sinh(x)}}\cosh(x)}{\sinh(x)\sqrt{\pi}}$

"S(x)", *undefined*

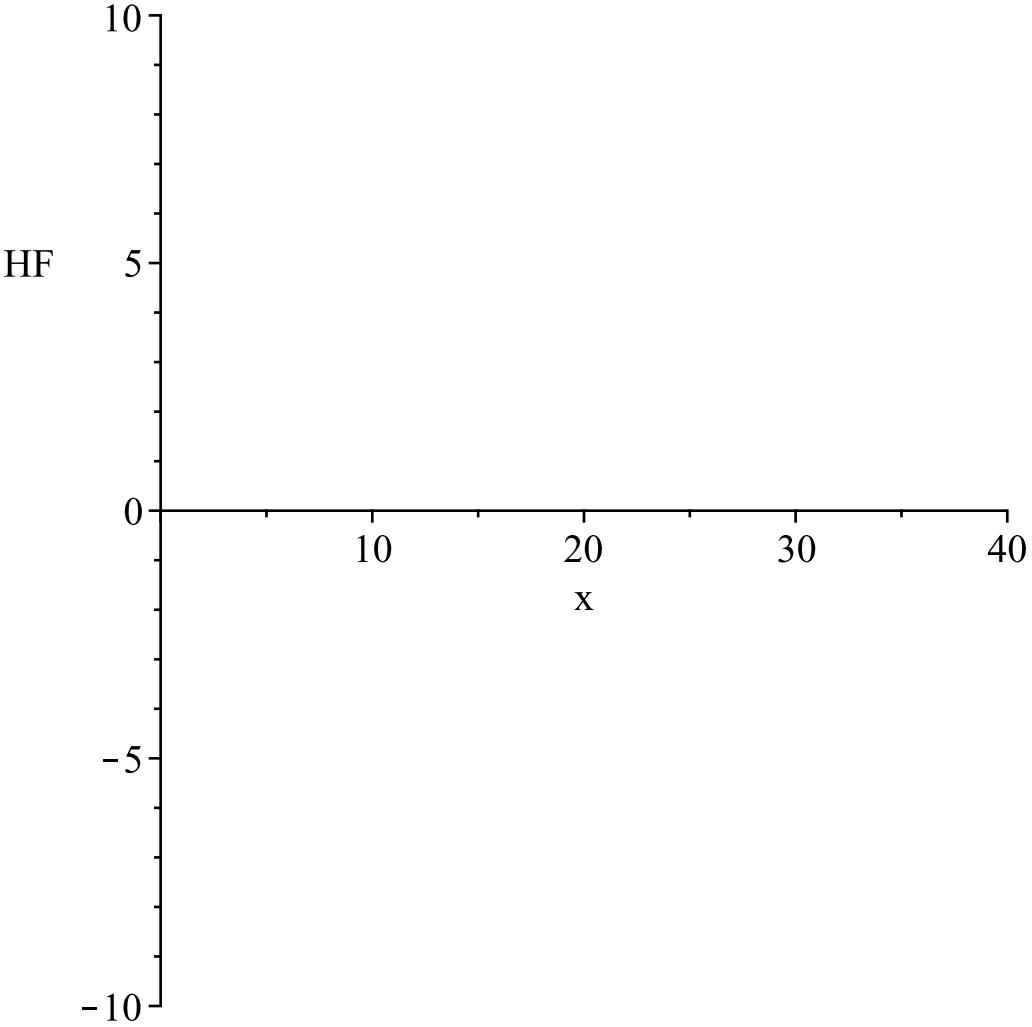
"h(x)", $\frac{\operatorname{signum}(x)\sqrt{\frac{1}{\sinh(x)}}\, e^{-\frac{1}{9}\frac{(\sinh(x)-3)^2}{\sinh(x)}}\cosh(x)}{\sinh(x)}$ *undefined*

"mean and variance", $\int_0^\infty \frac{e^{-\frac{1}{9}\frac{\cosh(x)^2-6\sinh(x)+8}{\sinh(x)}}\cosh(x)\, x}{\sinh(x)^{3/2}\sqrt{\pi}}\, dx,$

$$\int_0^\infty \frac{e^{-\frac{1}{9}\frac{\cosh(x)^2-6\sinh(x)+8}{\sinh(x)}}\cosh(x)\, x^2}{\sinh(x)^{3/2}\sqrt{\pi}}\, dx - \left(\int_0^\infty \frac{e^{-\frac{1}{9}\frac{\cosh(x)^2-6\sinh(x)+8}{\sinh(x)}}\cosh(x)\, x}{\sinh(x)^{3/2}\sqrt{\pi}}\, dx\right)^2$$



Warning, unable to evaluate the function to numeric values in the region; see the plotting command's help page to ensure the calling sequence is correct




```
{\frac {{\it signum} \left( x \right) \sqrt { \left( \sinh \left
( x
 \right)  \right) ^{-1}}\cosh \left( x \right) }{\sinh \left( x
 \right) \sqrt {\pi}}{{\rm e}^{-1/9\,{\frac { \left( \sinh \left
( x
 \right) -3 \right) ^{2}}{\sinh \left( x \right) }}}}}
```

"i is", 14,

" ----------

---------- "

$$g := t \to \operatorname{csch}(t+1)$$

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y\sim \to \frac{\sqrt{\frac{1}{(-1+\operatorname{arccsch}(y\sim))^3}}\, e^{-\frac{1}{9}\frac{(-4+\operatorname{arccsch}(y\sim))^2}{-1+\operatorname{arccsch}(y\sim)}}}{\sqrt{\pi}\,\sqrt{y\sim^2+1}\,|y\sim|}\right], \left[0, \frac{2}{e-e^{-1}}\right],\right.$$

$$\left[\text{"Continuous"}, \text{"PDF"}\right]$$

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

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

$$\text{"f(x)"}, \frac{\sqrt{\frac{1}{(-1+\operatorname{arccsch}(x))^3}}\, e^{-\frac{1}{9}\frac{(-4+\operatorname{arccsch}(x))^2}{-1+\operatorname{arccsch}(x)}}}{\sqrt{\pi}\,\sqrt{x^2+1}\,|x|}$$

Warning, computation interrupted

>