"i is", 22,

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

$$g := t \to \operatorname{arccsch}\left(\frac{1}{t}\right)$$

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y\sim \to 4\, e^{-2\sinh(y\sim)} \cosh(y\sim)\, \sinh(y\sim)\right], [0, \infty], ["Continuous", "PDF"]\right]$$

"l and u", 0, ∞

"g(x)", $\operatorname{arccsch}\left(\frac{1}{x}\right)$, "base", $4\, x\, e^{-2x}$, "GammaRV(2,2)"

"f(x)", $4\, e^{-2\sinh(x)} \cosh(x)\, \sinh(x)$

"F(x)", $\left(-e^{(2xe^x+1)e^{-x}} - e^{(xe^x+1)e^{-x}} + e^{e^x+x} + e^{e^{-x}}\right) e^{-e^x-x}$

"IDF(x,s)", $\left[\left[s \to RootOf\left(e^{(2\_Ze^{\_Z}+1)e^{-\_Z}} + s\, e^{\_Z+e^{\_Z}} + e^{(\_Ze^{\_Z}+1)e^{-\_Z}} - e^{\_Z+e^{\_Z}} - e^{e^{-\_Z}}\right)\right], [0, 1], ["Continuous", "IDF"]\right]$

"S(x)", $-e^{-e^x-x+e^{-x}} + e^{-e^x-x+(2xe^x+1)e^{-x}} + e^{-e^x-x+(xe^x+1)e^{-x}}$

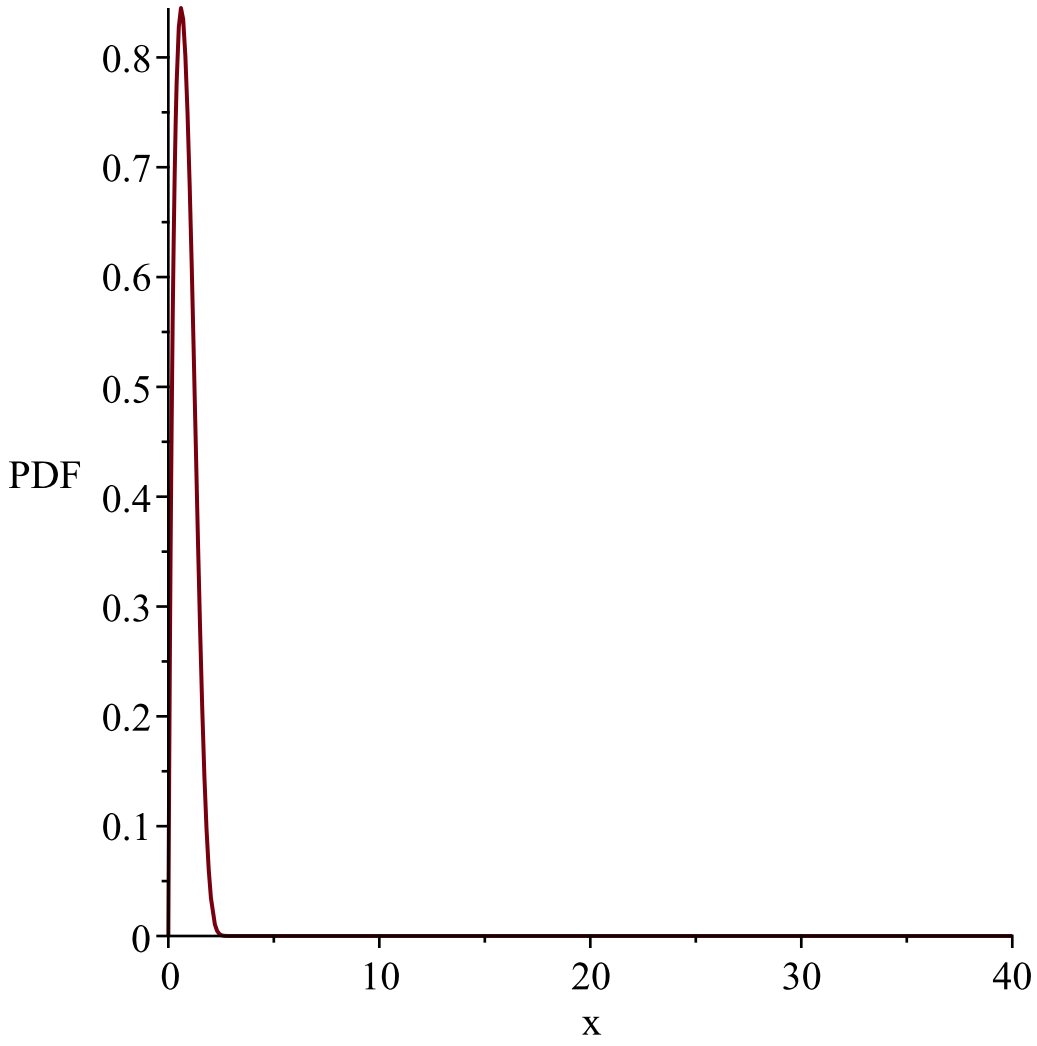
"h(x)", $-\dfrac{4\, e^{-2\sinh(x)} \cosh(x)\, \sinh(x)}{e^{-(e^{2x}+xe^x-1)e^{-x}} - e^{-(e^{2x}-xe^x-1)e^{-x}} - e^{-(e^{2x}-1)e^{-x}}}$

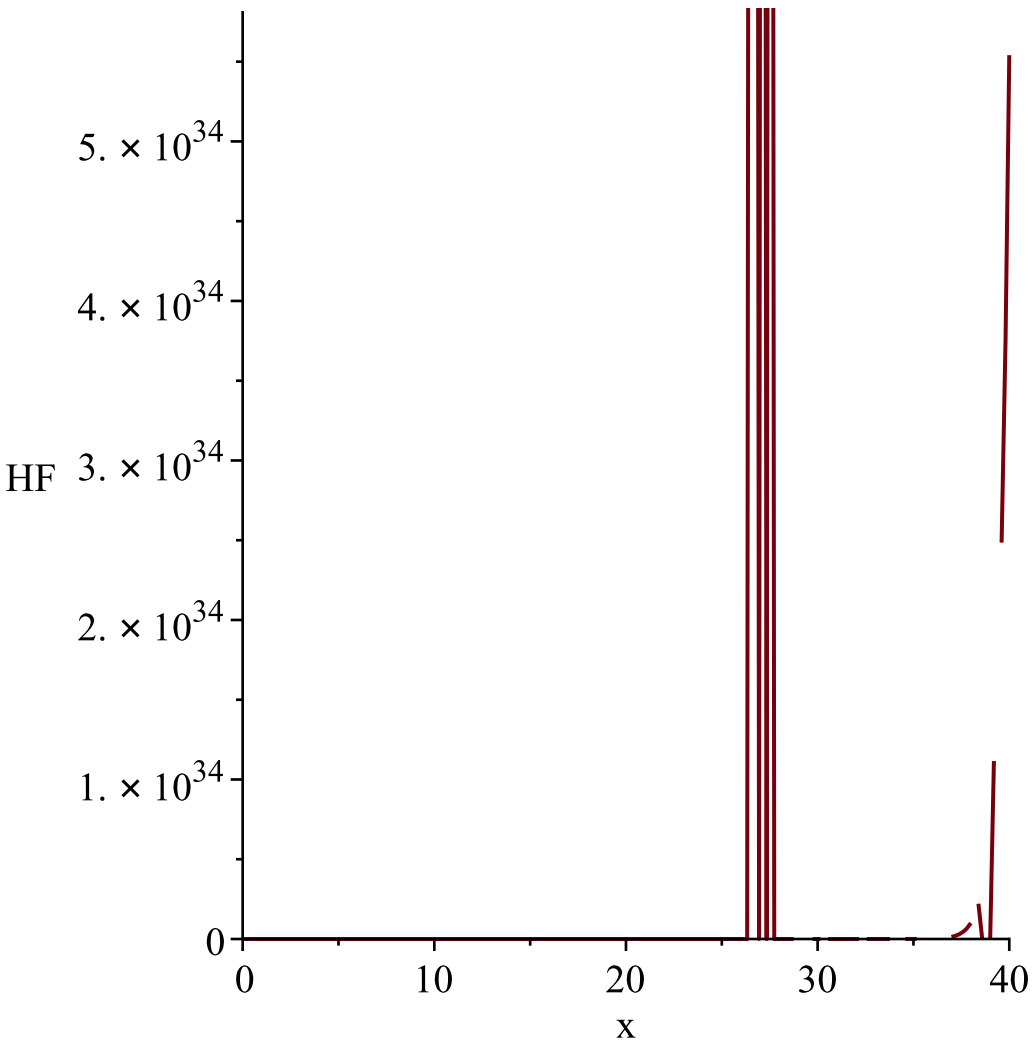
"mean and variance", $\int_0^\infty 2\, x\, e^{-2\sinh(x)} \sinh(2\, x)\, dx$, $\int_0^\infty 2\, x^2\, e^{-2\sinh(x)} \sinh(2\, x)\, dx$

$$-\left(\int_0^\infty 2\, x\, e^{-2\sinh(x)} \sinh(2\, x)\, dx\right)^2$$

$$mf := \int_0^\infty 4\, x^{r\sim}\, e^{-2\sinh(x)} \cosh(x)\, \sinh(x)\, dx$$

"MGF", $\int_0^\infty 2\, e^{t\,x - 2\sinh(x)} \sinh(2\, x)\, dx$


PDF
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
x




```
4\,{{\rm e}^{-2\,\sinh \left( x \right) }}\cosh \left( x \right)
\sinh
 \left( x \right)
"i is", 23,
    " ----------------------------------------------------------------------------------------------------
    ----------"
```

$$g := t \to \operatorname{arctanh}\left(\frac{1}{t}\right)$$

$$l := 0$$

$$u := \infty$$

Error, (in simpl/min) complex argument to max/min: -((1/2)*I)*Pi

>