"is", 18,

$$g := t \rightarrow \frac{1}{\arcsin h(t+1)}$$

$$l := 0$$

$$u := \infty$$

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

$$["Continuous", "PDF"]$$

$$"f(x)", \frac{1}{\arcsin h(x+1)}, "base", 4x e^{-2x}, "GammaRV(2,2)"$$

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

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

$$"IDF(x,s)", \left[s \rightarrow \frac{\left(\frac{2}{e^{x}} x - 2e^{\frac{1}{x}} x + e^{\frac{1}{x}} - x\right)e^{-\frac{1}{x}}}{x} \left(e^{\frac{2}{x}} - e^{\frac{1}{x}} - 1 \right) + 2e^{-2} - 2e^{-2} - 1 \right), [0, 1],$$

$$["Continuous", "IDF"]$$

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

$$\left(\frac{2}{x^{2}} \left(e^{-\frac{1}{x}} - 2e^{\frac{1}{x}} x - e^{\frac{1}{x}} - x\right)e^{-\frac{1}{x}}}{x} - e^{-\left(\frac{2}{e^{x}} - 2e^{\frac{1}{x}} - 1\right)e^{-\frac{1}{x}}} - e^{-\left(\frac{2}{e^{x}} x - 2e^{\frac{1}{x}} x - x\right)e^{-\frac{1}{x}}} \right) \right]$$

$$\begin{bmatrix} \\ -1 \end{bmatrix}$$

"mean and variance did not work"

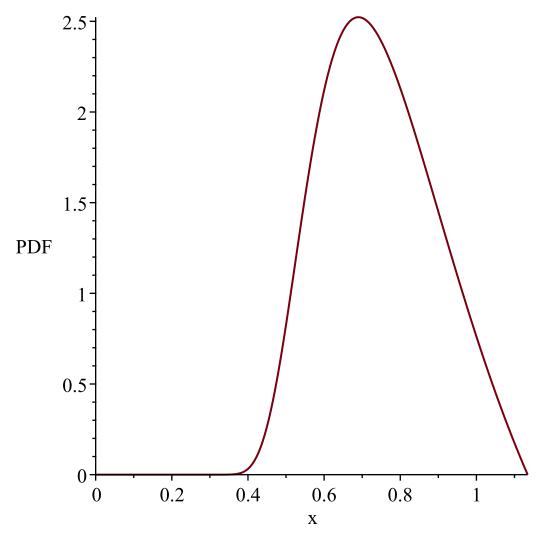
$$mf := \int_{0}^{\frac{1}{\ln(1+\sqrt{2})}} \frac{4 x^{r} \left(-1 + \sinh\left(\frac{1}{x}\right)\right) e^{2-2\sinh\left(\frac{1}{x}\right)} \cosh\left(\frac{1}{x}\right)}{x^{2}} dx$$

"MGF did not work"

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

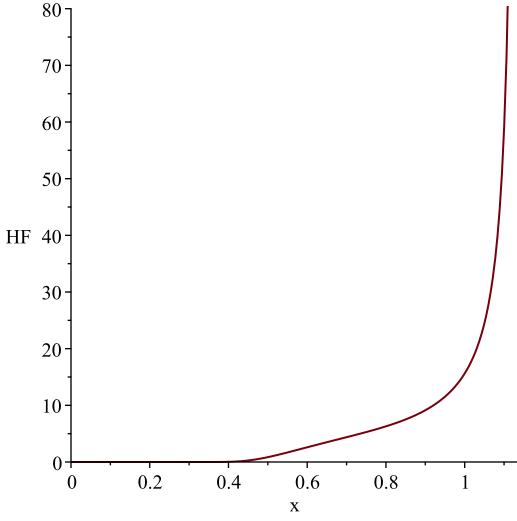
variable,
$$\frac{1}{\ln(1+\sqrt{2})}$$

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



4\,{\frac { \left(-1+\sinh \left(
$$\{x\}^{-1} \} \ \ \{\rm e\}^{ }$$
 {2-2\,\sinh \left($\{x\}^{-1} \} \ \ \{x\}^{-1} \}$ \right) }{ \right($\{x\}^{-1} \} \ \ \{x\}^{2}\}$ \right($\{x\}^{-1} \} \ \ \{x\}^{2}\}$

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

$$l := 0$$

$$u := \infty$$

$$femp := \left[y \sim \rightarrow \frac{4 \operatorname{arccsch}\left(\frac{1}{y \sim -1}\right)}{\sqrt{y \sim^2 - 2 \, y \sim + 2} \, \left(y \sim -1 + \sqrt{y \sim^2 - 2 \, y \sim + 2}\right)^2} \right], [1, \infty], ["Continuous", y \sim -1]$$

"PDF"]

"I and u", 0, ∞ "g(x)", $\frac{1}{\operatorname{csch}(x)} + 1$, "base", $4x e^{-2x}$, "GammaRV(2,2)" $\frac{4 \operatorname{arccsch}\left(\frac{1}{x-1}\right)}{\sqrt{x^2 - 2x + 2} \left(x - 1 + \sqrt{x^2 - 2x + 2}\right)^2}$ "F(x)", $4\left(\int_{1}^{x} \frac{\operatorname{arccsch}\left(\frac{1}{t-1}\right)}{\sqrt{t^2 - 2t + 2} \left(t - 1 + \sqrt{t^2 - 2t + 2}\right)^2} dt\right)$ Error, (in solve) cannot solve expressions with int (arccsch (1/(t-1))/((t^2-2*t+2)^{(1/2)}*(t-1+(t^2-2*t+2)^{(1/2)})^2), t = 1...

Error x (in solve) cannot solve expressions with int (arccsch (1/(t-1))/((t^2-2*t+2)^{(1/2)}*(t-1+(t^2-2*t+2)^{(1/2)})^2), t = 1...