filename := "C:/LatexOutput/ChiGen.tex"
$$\frac{x^{a\sim -1} e^{-\frac{1}{2}x^{2}}}{2^{\frac{1}{2}a\sim -1}\Gamma(\frac{1}{2}a\sim)}$$

"i is", 1,

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....."

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \sim \rightarrow \frac{2^{-\frac{1}{2} a \sim -\frac{1}{2} a \sim -1} - \frac{1}{2} y \sim}{\Gamma\left(\frac{1}{2} a \sim\right)} \right], [0, \infty], ["Continuous", "PDF"] \right]$$

$$"I and u", 0, \infty$$

$$"g(x)", x^{2}, "base", \frac{x^{a \sim -1} e^{-\frac{1}{2} x^{2}}}{2^{\frac{1}{2} a \sim -1} \Gamma\left(\frac{1}{2} a \sim\right)}, "ChiRV(a)"$$

$$\frac{1}{2^{\frac{1}{2} a \sim -1} \Gamma\left(\frac{1}{2} a \sim\right)}{\Gamma\left(\frac{1}{2} a \sim\right)}$$

$$"f(x)", \frac{2^{-\frac{1}{2} a \sim \frac{1}{2} a \sim -1} e^{-\frac{1}{2} x}}{\Gamma\left(\frac{1}{2} a \sim\right)}$$

"i is", 2,

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$$g := t \to \sqrt{t}$$

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \to \frac{4 \, 2^{-\frac{1}{2} \, a \sim} \, y \sim^2 \, a \sim -1 \, e^{-\frac{1}{2} \, y \sim^4}}{\Gamma\left(\frac{1}{2} \, a \sim\right)} \right], [0, \infty], ["Continuous", "PDF"] \right]$$

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

$$"g(x)", \sqrt{x}, "base", \frac{x^{a \sim -1} \, e^{-\frac{1}{2} \, x^2}}{2^{\frac{1}{2} \, a \sim -1}}, "ChiRV(a)"$$

"f(x)",
$$\frac{4 2^{-\frac{1}{2} a} x^{2 a} - 1}{\Gamma(\frac{1}{2} a}$$

"i is", 3,

" ______

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$$g := t \to \frac{1}{t}$$

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \to \frac{y \sim^{-a \sim -1} e^{-\frac{1}{2}y \sim^2} 2^{-\frac{1}{2}a \sim +1}}{\Gamma\left(\frac{1}{2}a \sim\right)} \right], [0, \infty], ["Continuous", "PDF"] \right]$$

$$"I and u", 0, \infty$$

$$"g(x)", \frac{1}{x}, "base", \frac{x^{a \sim -1} e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a \sim -1}}, "ChiRV(a)"$$

$$\frac{1}{2^{\frac{1}{2}a \sim -1} e^{-\frac{1}{2}x^2} 2^{-\frac{1}{2}a \sim +1}}{\Gamma\left(\frac{1}{2}a \sim\right)}$$

$$"f(x)", \frac{x^{-a \sim -1} e^{-\frac{1}{2}x^2} 2^{-\frac{1}{2}a \sim +1}}{\Gamma\left(\frac{1}{2}a \sim\right)}$$

"i is", 4,

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$$g \coloneqq t \to \arctan(t)$$

$$l \coloneqq 0$$

$$u \coloneqq \infty$$

$$Temp \coloneqq \left[\left[y \sim \to \frac{\tan(y \sim)^{a \sim -1} e^{-\frac{1}{2} \tan(y \sim)^2} 2^{-\frac{1}{2} a \sim +1} (1 + \tan(y \sim)^2)}{\Gamma(\frac{1}{2} a \sim)} \right], \left[0, \frac{1}{2} \pi \right],$$

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

"I and u", $0, \infty$

"g(x)", arctan(x), "base",
$$\frac{x^{a\sim -1} e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a\sim -1} \Gamma\left(\frac{1}{2}a\sim\right)}, \text{"ChiRV(a)"}$$
"f(x)",
$$\frac{\tan(x)^{a\sim -1} e^{-\frac{1}{2}\tan(x)^2} 2^{-\frac{1}{2}a\sim +1} \left(1 + \tan(x)^2\right)}{\Gamma\left(\frac{1}{2}a\sim\right)}$$

"i is", 5,

" ______

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$$g := t \rightarrow e^{t}$$

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \sim \rightarrow \frac{\ln(y \sim)^{a \sim -1} e^{-\frac{1}{2} \ln(y \sim)^{2}} 2^{-\frac{1}{2} a \sim +1}}{\Gamma\left(\frac{1}{2} a \sim\right) y \sim} \right], [1, \infty], ["Continuous", "PDF"] \right]$$

$$"I and u", 0, \infty$$

$$"g(x)", e^{x}, "base", \frac{x^{a \sim -1} e^{-\frac{1}{2} x^{2}}}{2^{\frac{1}{2} a \sim -1} \Gamma\left(\frac{1}{2} a \sim\right)}, "ChiRV(a)"$$

$$"f(x)", \frac{\ln(x)^{a \sim -1} e^{-\frac{1}{2} \ln(x)^{2}} 2^{-\frac{1}{2} a \sim +1}}{\Gamma\left(\frac{1}{2} a \sim\right) x}$$

"i is", 6,

" ______

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$$g := t \to \ln(t)$$

$$l := 0$$

$$u := \infty$$

$$Temp := \left[y \to \frac{e^{y \to a \to -\frac{1}{2} e^{2y \to c} - \frac{1}{2} a \to +1}}{\Gamma\left(\frac{1}{2} a \to c\right)}, [-\infty, \infty], ["Continuous", "PDF"] \right]$$

$$= \int_{0}^{\pi} \left[\int_{0}^{\pi} \int$$

"f(x)",
$$\frac{e^{xa\sim -\frac{1}{2}e^{2x}}2^{-\frac{1}{2}a\sim +1}}{\Gamma(\frac{1}{2}a\sim)}$$

"i is", 7,

" ______

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$$g := t \rightarrow e^{-t}$$
$$l := 0$$
$$u := \infty$$

$$Temp := \left[\left[y \sim \rightarrow -\frac{2^{-\frac{1}{2} a \sim +1} e^{-\frac{1}{2} \ln(y \sim)^{2}} \left(-\frac{1}{\ln(y \sim)} \right)^{-a \sim}}{\ln(y \sim) \Gamma\left(\frac{1}{2} a \sim\right) y \sim} \right], [0, 1], ["Continuous", "PDF"] \right]$$

"I and u", $0, \infty$

"g(x)", e^{-x}, "base",
$$\frac{x^{a \sim -1} e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a \sim -1} \Gamma(\frac{1}{2}a \sim)}$$
, "ChiRV(a)"

"f(x)",
$$-\frac{2^{-\frac{1}{2}a\sim +1}e^{-\frac{1}{2}\ln(x)^2}\left(-\frac{1}{\ln(x)}\right)^{-a\sim}}{\ln(x)\Gamma\left(\frac{1}{2}a\sim\right)x}$$

"i is", 8,

____"

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \sim \rightarrow \frac{e^{-y \sim a \sim -\frac{1}{2} e^{-2y \sim} -\frac{1}{2} a \sim + 1}}{\Gamma\left(\frac{1}{2} a \sim\right)} \right], [-\infty, \infty], ["Continuous", "PDF"] \right]$$
"I and u", 0, \infty

"g(x)", -ln(x), "base",
$$\frac{x^{a \sim -1} e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a \sim -1} \Gamma(\frac{1}{2}a \sim)}$$
, "ChiRV(a)"
$$\frac{e^{-xa \sim -\frac{1}{2}e^{-2x}} e^{-2x} - \frac{1}{2}a \sim +1}{\Gamma(\frac{1}{2}a \sim)}$$

 $g := t \rightarrow \ln(t+1)$ $u := \infty$ $Temp := \left[y \sim \frac{2^{-\frac{1}{2} a \sim +1} \left(e^{y \sim -1} \right)^{a \sim -1} e^{-\frac{1}{2} e^{2y \sim} + e^{y \sim} - \frac{1}{2} + y \sim}}{\Gamma\left(\frac{1}{2} a \sim\right)} \right], [0, \infty], ["Continuous", where the properties of the properties of$ "I and u", $0, \infty$ "g(x)", ln(x + 1), "base", $\frac{x^{a \sim -1} e^{-\frac{1}{2}x^{2}}}{2^{\frac{1}{2}a \sim -1} \Gamma\left(\frac{1}{2}a \sim\right)}, \text{"ChiRV(a)"}$ "f(x)", $\frac{2^{-\frac{1}{2}a \sim +1} (e^{x}-1)^{a \sim -1} e^{-\frac{1}{2}e^{2x}+e^{x}-\frac{1}{2}+x}}{\Gamma\left(\frac{1}{2}a \sim\right)}$ "i is", 10, $g := t \to \frac{1}{\ln(t+2)}$ $Temp := \left[y \sim \rightarrow \frac{\left(\frac{1}{e^{\frac{1}{y^{\sim}}} - 2\right)^{a \sim -1}}{2^{-\frac{1}{2}a \sim +1} - \frac{1}{e^{-\frac{1}{2}\frac{e^{\frac{1}{y^{\sim}}}y \sim -4e^{\frac{1}{y^{\sim}}}y \sim +4y \sim -2}{y \sim}}}{\Gamma\left(\frac{1}{2}a \sim\right)y \sim^{2}} \right], \left[0, \frac{1}{\ln(2)}\right],$ ["Continuous", "PDF"] "I and u", $0, \infty$

"g(x)",
$$\frac{1}{\ln(x+2)}$$
, "base", $\frac{x^{a\sim -1}e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a\sim -1}}$, "ChiRV(a)"
$$\frac{\left(e^{\frac{1}{x}}-2\right)^{a\sim -1}}{2^{-\frac{1}{2}a\sim +1}e^{-\frac{1}{2}\frac{e^{\frac{2}{x}}x-4e^{\frac{1}{x}}x+4x-2}{x}}}{\Gamma\left(\frac{1}{2}a\sim\right)x^2}$$
 it is", 11,

"i is", 11,

 $g := t \rightarrow \tanh(t)$

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \sim \rightarrow -\frac{\operatorname{arctanh}(y \sim)^{a \sim -1} e^{-\frac{1}{2} \operatorname{arctanh}(y \sim)^{2}} 2^{-\frac{1}{2} a \sim +1}}{(y \sim^{2} - 1) \Gamma(\frac{1}{2} a \sim)} \right], [0, 1], ["Continuous",$$

$$"PDF"]$$

"l and u", 0, ∞ "g(x)", tanh(x), "base", $\frac{x^{a\sim -1}e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a\sim -1}\Gamma(\frac{1}{2}a\sim)}$, "ChiRV(a)" "f(x)", $-\frac{\operatorname{arctanh}(x)^{a\sim -1} e^{-\frac{1}{2}\operatorname{arctanh}(x)^2} 2^{-\frac{1}{2}a\sim +1}}{(x^2-1)\Gamma(\frac{1}{2}a\sim)}$

"i is", 12,

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \sim \rightarrow \frac{\operatorname{arcsinh}(y \sim)^{a \sim -1} e^{-\frac{1}{2} \operatorname{arcsinh}(y \sim)^{2}} 2^{-\frac{1}{2} a \sim +1}}{\Gamma\left(\frac{1}{2} a \sim\right) \sqrt{y \sim^{2} + 1}} \right], [0, \infty], ["Continuous", "PDF"] \right]$$

$$"! and u", 0, \infty$$

 $g := t \rightarrow \sinh(t)$

"g(x)",
$$\sinh(x)$$
, "base",
$$\frac{x^{a\sim-1} e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a\sim-1} \Gamma\left(\frac{1}{2}a\sim\right)}, \text{"ChiRV(a)"}$$
"f(x)",
$$\frac{\arcsin(x)^{a\sim-1} e^{-\frac{1}{2}\arcsin(x)^2} 2^{-\frac{1}{2}a\sim+1}}{\Gamma\left(\frac{1}{2}a\sim\right)\sqrt{x^2+1}}$$
"i is", 13,
"
$$g := t \rightarrow \operatorname{arcsinh}(t)$$

$$l := 0$$

$$Temp := \left[\left[y \sim \rightarrow \frac{\sinh(y \sim)^{a \sim -1} e^{-\frac{1}{2} \sinh(y \sim)^2} 2^{-\frac{1}{2} a \sim +1} \cosh(y \sim)}{\Gamma\left(\frac{1}{2} a \sim\right)} \right], [0, \infty], ["Continuous", where the property of t$$

"PDF"]

"I and u", 0,
$$\infty$$

"g(x)", $\arcsinh(x)$, "base", $\frac{x^{a\sim -1}e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a\sim -1}\Gamma\left(\frac{1}{2}a\sim\right)}$, "ChiRV(a)"

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

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

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \rightarrow \frac{(-1 + \operatorname{arccsch}(y \sim))^{a \sim -1} e^{-\frac{1}{2}(-1 + \operatorname{arccsch}(y \sim))^{2} 2^{-\frac{1}{2}a \sim +1}}}{\sqrt{y \sim^{2} + 1} \Gamma\left(\frac{1}{2}a \sim\right) |y \sim|} \right], \left[0, \frac{2}{e - e^{-1}} \right],$$

["Continuous", "PDF"] "I and u", $0, \infty$ "g(x)", csch(x + 1), "base", $\frac{x^{a \sim -1} e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a \sim -1} \Gamma(\frac{1}{2}a \sim)}$, "ChiRV(a)" "f(x)", $\frac{(-1 + \operatorname{arccsch}(x))^{a \sim -1} e^{-\frac{1}{2} (-1 + \operatorname{arccsch}(x))^2} 2^{-\frac{1}{2} a \sim +1}}{\sqrt{x^2 + 1} \Gamma(\frac{1}{2} a \sim) |x|}$ "i is", 15, $g := t \rightarrow \operatorname{arccsch}(t+1)$ l := 0 $Temp := \left[y \sim -\frac{2^{1 + \frac{1}{2} a \sim} e^{-\frac{1}{2} \frac{(\sinh(y \sim) - 1)^{2}}{\sinh(y \sim)^{2}}} \cosh(y \sim) \left(-\frac{1}{2} \frac{\sinh(y \sim) - 1}{\sinh(y \sim)} \right)^{a \sim}}{\Gamma\left(\frac{1}{2} a \sim\right) (\sinh(y \sim) - 1) \sinh(y \sim)} \right], [0, \ln(1)]$ $+\sqrt{2}$)], ["Continuous", "PDF"] "I and u", $0, \infty$ "g(x)", arccsch(x + 1), "base", $\frac{x^{a\sim -1} e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a\sim -1}\Gamma(\frac{1}{2}a\sim)}$, "ChiRV(a)" $\frac{2^{1+\frac{1}{2}a\sim}e^{-\frac{1}{2}\frac{(\sinh(x)-1)^{2}}{\sinh(x)^{2}}}{\cosh(x)\left(-\frac{1}{2}\frac{\sinh(x)-1}{\sinh(x)}\right)^{a\sim}}}{\Gamma\left(\frac{1}{2}a\sim\right)(\sinh(x)-1)\sinh(x)}$

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

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \rightarrow \frac{\left(-1 + \arctan\left(\frac{1}{y \sim}\right)\right)^{a \sim -1} - \frac{1}{2}\left(-1 + \arctan\left(\frac{1}{y \sim}\right)\right)^{2}}{\Gamma\left(\frac{1}{2} a \sim +1\right)} \right], \left[1, \right]$$

$$\frac{c + c^{-1}}{c - c^{-1}} \right], \left[\text{"Continuous", "PDF"} \right]$$

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

$$"g(x)", \frac{1}{\tanh(x+1)}, \text{"base", } \frac{x^{a \sim -1} e^{-\frac{1}{2}x^{2}}}{2^{\frac{1}{2}a \sim -1}}, \text{"ChirV(a)"}$$

$$\frac{1}{2^{\frac{1}{2}a \sim -1}} \Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right)$$

$$\Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right)$$

$$\Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right)$$

$$\frac{1}{2^{\frac{1}{2}a \sim +1}} \Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right)$$

$$\frac{1}{2^{\frac{1}{2}a \sim +1}} \Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right)$$

$$\frac{1}{2^{\frac{1}{2}a \sim +1}} \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right) \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right) \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right)$$

$$\frac{1}{2^{\frac{1}{2}a \sim +1}} \Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right)$$

$$\frac{1}{2^{\frac{1}{2}a \sim +1}} \Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right)$$

$$\frac{1}{2^{\frac{1}{2}a \sim +1}} \Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right) \Gamma\left(\frac{1}{2} a \sim +1\right)$$

$$\frac{1}{2^{\frac{1}{2}a \sim +1}} \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right) \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right) \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right)$$

$$\frac{1}{2^{\frac{1}{2}a \sim +1}} \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right) \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right) \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right) \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right) \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right)$$

$$\frac{1}{2^{\frac{1}{2}a \sim +1}} \Gamma\left(\frac{1}{2^{\frac{1}{2}a \sim +1}}\right) \Gamma\left($$

"I and u", $0, \infty$

"g(x)",
$$\frac{1}{\sinh(x+1)}$$
, "base", $\frac{x^{a\sim -1}e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a\sim -1}\Gamma(\frac{1}{2}a\sim)}$, "ChiRV(a)"
$$\frac{\left(-1 + \arcsin\left(\frac{1}{x}\right)\right)^{a\sim -1}e^{-\frac{1}{2}\left(-1 + \arcsin\left(\frac{1}{x}\right)\right)^2}2^{-\frac{1}{2}a\sim +1}}{\sqrt{x^2+1}\Gamma(\frac{1}{2}a\sim)|x|}$$

"i is", 18,

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$$g := t \to \frac{1}{\operatorname{arcsinh}(t+1)}$$
$$l := 0$$
$$u := \infty$$

$$\textit{Temp} := \left[\left[y \sim \rightarrow \frac{\left(-1 + \sinh\left(\frac{1}{y \sim}\right)\right)^{a \sim -1} e^{-\frac{1}{2}\left(-1 + \sinh\left(\frac{1}{y \sim}\right)\right)^2} 2^{-\frac{1}{2}a \sim +1} \cosh\left(\frac{1}{y \sim}\right)}{\Gamma\left(\frac{1}{2}a \sim\right) y \sim^2} \right], \left[0, \right]$$

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

"l and u", 0, ∞

"g(x)",
$$\frac{1}{\operatorname{arcsinh}(x+1)}$$
, "base", $\frac{x^{a\sim -1}e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a\sim -1}\Gamma(\frac{1}{2}a\sim)}$, "ChiRV(a)"

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

"i is", 19,

" ______

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$$g := t \to \frac{1}{\operatorname{csch}(t)} + 1$$
$$l := 0$$
$$u := \infty$$

$$Temp := \left[y \sim \frac{\operatorname{arccsch}\left(\frac{1}{y \sim -1}\right)^{a \sim -1} e^{-\frac{1}{2}\operatorname{arccsch}\left(\frac{1}{y \sim -1}\right)^{2} 2^{-\frac{1}{2}a \sim +1}}{\sqrt{y \sim^{2} - 2y \sim +2} \Gamma\left(\frac{1}{2}a \sim\right)} \right], [1, \infty],$$

["Continuous", "PDF"]

"l and u", 0, ∞

"g(x)",
$$\frac{1}{\operatorname{csch}(x)} + 1$$
, "base", $\frac{x^{a \sim -1} e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a \sim -1} \Gamma(\frac{1}{2}a \sim)}$, "ChiRV(a)"

$$\frac{1}{2^{\frac{1}{2}a \sim -1} \Gamma(\frac{1}{2}a \sim)} \Gamma(\frac{1}{2}a \sim)$$
"f(x)", $\frac{\operatorname{arccsch}(\frac{1}{x-1})^2 e^{-\frac{1}{2}\operatorname{arccsch}(\frac{1}{x-1})^2} 2^{-\frac{1}{2}a \sim +1}}{\sqrt{x^2 - 2x + 2} \Gamma(\frac{1}{2}a \sim)}$

"i is", 20,

" ______

_____"

"l and u", 0, ∞

"g(x)", tanh
$$\left(\frac{1}{x}\right)$$
, "base", $\frac{x^{a\sim -1}e^{-\frac{1}{2}x^2}}{2^{\frac{1}{2}a\sim -1}\Gamma\left(\frac{1}{2}a\sim\right)}$, "ChiRV(a)"

$$l := 0$$

$$u := \infty$$

$$Temp := \left[\left[y \sim \rightarrow \frac{2^{-\frac{1}{2} a \sim +1} \sinh(y \sim)^{a \sim -1} e^{-\frac{1}{2} \sinh(y \sim)^{2}} \cosh(y \sim)}{\Gamma(\frac{1}{2} a \sim)} \right], [0, \infty], ["Continuous", [0, \infty]]$$

"PDF"]

"I and u", 0,
$$\infty$$

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

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