filename := "C:/LatexOutput/GeneralizedParetoGen.tex" $\left(a\sim +\frac{c}{x+b\sim}\right)\left(1+\frac{x}{b\sim}\right)^{-c}e^{-a\sim x}$ "i is", 1, $Temp := \left[\left[y \sim \rightarrow \frac{1}{2} \right] \frac{\left(a \sim \sqrt{y \sim} + a \sim b \sim + c \right) b \sim^{c} \left(\sqrt{y \sim} + b \sim \right)^{-c - 1} e^{-a \sim \sqrt{y \sim}}}{\sqrt{y \sim}} \right], [0, \infty],$ ["Continuous", "PDF"] "l and u", 0, ∞ "g(x)", x^2 , "base", $\left(a \sim + \frac{c}{x + b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}$, "GeneralizedParetoRV(a,b,c)" "f(x)", $\frac{1}{2} \frac{\left(a \sim \sqrt{x} + a \sim b \sim + c\right) b \sim^{c} \left(\sqrt{x} + b \sim\right)^{-c - 1} e^{-a \sim \sqrt{x}}}{\sqrt{a}}$ "i is", 2, $Temp := \left[\left[y \sim +2 \left(a \sim y \sim^2 + a \sim b \sim + c \right) \left(y \sim^2 + b \sim \right)^{-c - 1} b \sim^c e^{-a \sim y \sim^2} y \sim \right], [0, \infty].$ ["Continuous", "PDF"] "I and u", 0, ∞ "g(x)", \sqrt{x} , "base", $\left(a \sim + \frac{c}{x + b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}$, "GeneralizedParetoRV(a,b,c)" "f(x)", 2 $(a \sim x^2 + a \sim b \sim + c) (x^2 + b \sim)^{-c-1} b \sim^c e^{-a \sim x^2} x$ "i is", 3, $g := t \rightarrow \frac{1}{4}$ $u := \infty$

$$Temp \coloneqq \left[\left| y \leadsto \frac{(a - b - y - c + c y - a - c) b - c}{(b - y - c + 1) y - c} e^{-\frac{a - c}{y - c}} \right|, [0, \infty], [\text{"Continuous"}, \\ (b - y - c + 1) y - c^{2} \right] \right]$$

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

$$\text{"g(x)", } \frac{1}{x}, \text{"base", } \left(a \sim + \frac{c}{x + b \sim} \right) \left(1 + \frac{x}{b -} \right)^{-c} e^{-a - x}, \text{"GeneralizedParetoRV(a,b,c)"}$$

$$\text{"f(x)", } \frac{(a \sim b - x + c + a - c) b - c}{(b \sim x + 1) x^{2}} e^{-\frac{a - c}{x}}$$

$$\text{"i is", 4, } \frac{(a \sim b - x + c + a - c) b - c}{(b \sim x + 1) x^{2}} e^{-\frac{a - c}{x}}$$

$$\text{"ii is", 4, } \frac{(a \sim b - x + c + a - c) b - c}{(b \sim x + 1) x^{2}} e^{-\frac{a - c}{x}}$$

$$\text{"ii is", 4, } \frac{(a \sim b - x + c + a - c) b - c}{(b \sim x + 1) x^{2}} e^{-\frac{a - c}{x}}$$

$$\text{"ii is", 4, } \frac{(a \sim b - x + c + a - c) b - c}{(b \sim x + 1) x^{2}} e^{-\frac{a - c}{x}} e^{-\frac{a - c}{x}}$$

$$\text{"ii is", 6, } \frac{(a \sim b - x + c + a - c) b - c}{(b \sim x + 1) x^{2}} e^{-\frac{a - c}{x}} e^{-\frac$$

```
g := t \rightarrow \ln(t)
                                                                                                                                                                    l := 0
                                                                                                                                                                 u := \infty
Temp := \left[ \left[ y \sim \to (a \sim e^{y \sim} + a \sim b \sim + c) (e^{y \sim} + b \sim)^{-c - 1} b \sim^{c} e^{-a \sim e^{y \sim} + y \sim} \right], [-\infty, \infty],
               ["Continuous", "PDF"]
                                                                                                                                                    "I and u", 0, \infty
          "g(x)", ln(x), "base", \left(a \sim + \frac{c}{x + b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}, "GeneralizedParetoRV(a,b,c)"
                                                                       "f(x)", (a \sim e^x + a \sim b \sim + c) (e^x + b \sim)^{-c-1} b \sim^c e^{-a \sim e^x + x}
"i is", 7,
                                                                                                                                                          g := t \rightarrow e^{-t}
\textit{Temp} := \big[ \big[ y \sim \to - (a \sim \ln(y \sim) - a \sim b \sim - c) \ b \sim^c (-\ln(y \sim) + b \sim)^{-c - 1} y \sim^{a \sim - 1} \big], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \ [0, 1], \
               ["Continuous", "PDF"]
                                                                                                                                                     "l and u", 0, ∞
              "g(x)", e^{-x}, "base", \left(a \sim + \frac{c}{x + b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}, "GeneralizedParetoRV(a,b,c)"
                                                           "f(x)", -(a \sim \ln(x) - a \sim b \sim -c) b \sim^{c} (-\ln(x) + b \sim)^{-c-1} x^{a \sim -1}
"i is", 8,
                                                                                                                                                  g := t \rightarrow -\ln(t)
                                                                                                                                                                  l := 0
Temp := \left[ \left[ y \sim \to (e^{y \sim} a \sim b \sim + c e^{y \sim} + a \sim) e^{-(y \sim e^{y \sim} + a \sim) e^{-y \sim} + c y \sim} (e^{y \sim} b \sim + 1)^{-c - 1} b \sim^{c} \right], [-\infty]
                ∞], ["Continuous", "PDF"]
                                                                                                                                                    "I and u", 0, \infty
      "g(x)", -\ln(x), "base", \left(a \sim + \frac{c}{x + b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}, "GeneralizedParetoRV(a,b,c)"
                                                "f(x)", (e^x a \sim b \sim + c e^x + a \sim) e^{-(xe^x + a \sim) e^{-x} + cx} (e^x b \sim + 1)^{-c-1} b \sim^c
"i is", 9,
                                                                                                                                             g := t \rightarrow \ln(t+1)
                                                                                                                                                                    1 := 0
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\textit{Temp} := \left[ \left[ y \sim \to \left( a \sim e^{y \sim} + a \sim b \sim - a \sim + c \right) \ b \sim^c \left( e^{y \sim} - 1 + b \sim \right)^{-c - 1} e^{-a \sim e^{y \sim} + a \sim + y \sim} \right], \ [0, \ \infty],
                        ["Continuous", "PDF"]
                                                                                                                                                                                                                                                  "I and u", 0, \infty
     "g(x)", ln(x + 1), "base", \left(a \sim + \frac{c}{x + b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}, "GeneralizedParetoRV(a,b,c)"
                                                                       "f(x)", (a \sim e^x + a \sim b \sim -a \sim +c) b \sim^c (e^x - 1 + b \sim)^{-c-1} e^{-a \sim e^x + a \sim +x}
"i is", 10,
                                                                                                                                                                                                                                g := t \to \frac{1}{\ln(t+2)}
                                                                                                                                                                                                                                                                       u := \infty
                      \rightarrow \frac{\left(a \sim e^{\frac{1}{y^{\sim}}} + a \sim b \sim -2 \ a \sim + c\right) b \sim^{c} \left(e^{\frac{1}{y^{\sim}}} - 2 + b \sim\right)^{-c - 1} e^{-\frac{a \sim y \sim e^{\frac{1}{y^{\sim}}} - 2 \ a \sim y \sim - 1}{y^{\sim}}}}{y^{\sim}} \right], \left[0, \frac{1}{y^{\sim}} + \frac{1}{y^{\sim}} - \frac{1}{y^{\sim
                      \frac{1}{\ln(2)}, ["Continuous", "PDF"]
                                                                                                                                                                                                                                                  "l and u", 0, ∞
"g(x)", \frac{1}{\ln(x+2)}, "base", \left(a \sim + \frac{c}{x+b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}, "GeneralizedParetoRV(a,b,c)"
                                 "f(x)", \frac{\left(a \sim e^{\frac{1}{x}} + a \sim b \sim -2 \ a \sim + c\right) b \sim^{c} \left(e^{\frac{1}{x}} - 2 + b \sim\right)^{-c - 1} e^{-\frac{a \sim x e^{\frac{1}{x}} - 2 a \sim x - 1}{x}}}{e^{\frac{1}{x}}}
"i is", 11,
                                                                                                                                                                                                                                              g := t \rightarrow \tanh(t)
                                                                                                                                                                                                                                                                            l := 0
                                                                                                                                                                                                                                                                       u := \infty
```

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\frac{(a \sim \operatorname{arctanh}(y \sim) + a \sim b \sim + c) \ b \sim^{c} (\operatorname{arctanh}(y \sim) + b \sim)^{-c - 1} e^{-a \sim \operatorname{arctanh}(y \sim)}}{y \sim^{2} - 1}
       ["Continuous", "PDF"]
                                                                          "I and u", 0, \infty
   "g(x)", tanh(x), "base", \left(a \sim + \frac{c}{x + b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}, "GeneralizedParetoRV(a,b,c)"
             "f(x)", -\frac{(a \sim \operatorname{arctanh}(x) + a \sim b \sim + c) b^{-c} (\operatorname{arctanh}(x) + b \sim)^{-c-1} e^{-a \sim \operatorname{arctanh}(x)}}{r^2 - 1}
"i is", 12,
                                                                        g := t \rightarrow \sinh(t)
                                                                                l := 0
Temp := \left[ y \sim \frac{(a \sim \operatorname{arcsinh}(y \sim) + a \sim b \sim + c) \ b \sim^{c} (\operatorname{arcsinh}(y \sim) + b \sim)^{-c - 1} e^{-a \sim \operatorname{arcsinh}(y \sim)}}{\sqrt{y \sim^{2} + 1}} \right]
       [0, ∞], ["Continuous", "PDF"]
                                                                         "l and u", 0, ∞
   "g(x)", \sinh(x), "base", \left(a \sim + \frac{c}{x + b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}, "GeneralizedParetoRV(a,b,c)"
                "f(x)", \frac{(a \sim \operatorname{arcsinh}(x) + a \sim b \sim + c) \ b \sim^{c} (\operatorname{arcsinh}(x) + b \sim)^{-c - 1} e^{-a \sim \operatorname{arcsinh}(x)}}{\sqrt{x^{2} + 1}}
"i is", 13,
                                                                     g := t \rightarrow \operatorname{arcsinh}(t)
                                                                                 l := 0
                                                                                u := \infty
Temp := \left[ \left[ y \sim \to (a \sim \sinh(y \sim) + a \sim b \sim + c) \ b \sim^{c} \left( \sinh(y \sim) + b \sim \right)^{-c - 1} e^{-a \sim \sinh(y \sim)} \cosh(y \sim) \right],
       [0, ∞], ["Continuous", "PDF"]]
                                                                         "I and u", 0, \infty
 "g(x)", arcsinh(x), "base", \left(a \sim + \frac{c}{x + b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}, "GeneralizedParetoRV(a,b,c)"
                 "f(x)", (a \sim \sinh(x) + a \sim b \sim + c) b \sim^{c} (\sinh(x) + b \sim)^{-c - 1} e^{-a \sim \sinh(x)} \cosh(x)
"i is", 14,
```

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

$$l \coloneqq 0$$

$$u \coloneqq \infty$$

$$Temp \coloneqq \left[\left[y \sim \frac{1}{\sqrt{y \sim^2 + 1}} \frac{1}{|y \sim^2|} + (a \sim \operatorname{arccsch}(y \sim) + a \sim b \sim -a \sim +c) \ b \sim^c (-1 + \operatorname{arccsch}(y \sim) + b \sim)^{-c-1} e^{-a \sim (-1 + \operatorname{arccsch}(y \sim))} \right] \right] \left[0, \frac{2}{c - c^{-1}} \right], \left[\text{"Continuous", "PDF"} \right]$$

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

$$\text{"g(x)", } \operatorname{csch}(x+1), \text{"base", } \left(a \sim + \frac{c}{x + b \sim} \right) \left(1 + \frac{x}{b \sim} \right)^{-c} e^{-a \sim x},$$

$$\text{"GeneralizedParetoRV(a,b,c)"}$$

$$\text{"I(is", 15,}$$

$$\text{"i is", 15,}$$

$$\text{"i is", 15,}$$

$$\text{"i is", 15,}$$

$$\text{"g} \coloneqq t \to \operatorname{arccsch}(t+1)$$

$$l \coloneqq 0$$

$$u \coloneqq \infty$$

$$Temp \coloneqq \left[\left[y \sim \to \frac{1}{\sinh(y \sim)^2 (b \sim \sinh(y \sim) - \sinh(y \sim) + 1)} \left((a \sim +a \sim b \sim \sinh(y \sim) - a \sim \sinh(y \sim) + c \sinh(y \sim) + 1 \right) \right] \left(a \sim +a \sim b \sim \sinh(y \sim) + c \sinh(y \sim) + c \sinh(y \sim) + 1 \right) \left[\left(a \sim +a \sim b \sim \sinh(y \sim) - \sinh(y \sim) + c \sinh(y \sim) + 1 \right) \right] \left[\left(a \sim +a \sim b \sim \sinh(y \sim) - a \sim \sinh(y \sim) + c \sinh(y \sim) + 1 \right) \left[\left(a \sim +a \sim b \sim \sinh(y \sim) - a \sim \sinh(y \sim) + c \sinh(y \sim) + 1 \right) \right] \left[\left(a \sim +a \sim b \sim \sinh(x) - a \sim \sinh(x) \right) \right]$$

$$\left[\left(a \sim +a \sim b \sim \sinh(x) - a \sim \sinh(x) \right) \left(a \sim +a \sim b \sim \sinh(x) - a \sim \sinh(x) \right) \right]$$

$$\left[\left(a \sim +a \sim b \sim \sinh(x) - a \sim \sinh(x) \right) \left(a \sim +a \sim b \sim \sinh(x) - a \sim \sinh(x) \right) \right]$$

"GeneralizedParetoRV(a,b,c)"

"f(x)",
$$\frac{1}{\sqrt{x^2+1}} \left(\left(a \sim \operatorname{arcsinh} \left(\frac{1}{x} \right) + a \sim b \sim -a \sim +c \right) b \sim^c \left(-1 + \operatorname{arcsinh} \left(\frac{1}{x} \right) + b \sim \right)^{-c} -1 - a \sim \left(-1 + \operatorname{arcsinh} \left(\frac{1}{x} \right) \right) \right)$$

"i is", 18,

" ______

_____"

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

$$Temp := \left[\left[y \sim \rightarrow \frac{1}{y \sim^2} \left(\left(a \sim \sinh\left(\frac{1}{y \sim}\right) + a \sim b \sim - a \sim + c \right) b \sim^c \left(-1 + \sinh\left(\frac{1}{y \sim}\right) + b \sim \right)^{-c} \right] - \left[a \sim \left(-1 + \sinh\left(\frac{1}{y \sim}\right) \right) \cosh\left(\frac{1}{y \sim}\right) \right] \right] \left[0, \frac{1}{\ln\left(1 + \sqrt{2}\right)} \right], \text{ ["Continuous", "PDF"]} \right]$$

"g(x)",
$$\frac{1}{\operatorname{arcsinh}(x+1)}$$
, "base", $\left(a \sim + \frac{c}{x+b \sim}\right) \left(1 + \frac{x}{b \sim}\right)^{-c} e^{-a \sim x}$,

"GeneralizedParetoRV(a,b,c)"

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

"i is", 19,

_____"

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

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

$$+c \int b^{-c} \left(\operatorname{arcesch}\left(\frac{1}{y\sim -1}\right) + b^{-c}\right)^{-c-1} e^{-a \cdot \operatorname{arcesch}\left(\frac{1}{y\sim -1}\right)}\right) \Big|, [1, \infty], ["Continuous", "PDF"] \Big|$$

$$"[a] \operatorname{and} u", 0, \infty$$

$$"[a] \operatorname{arcesch}\left(\frac{1}{x-1}\right) + a - b^{-c} + c \int \left(\operatorname{arcesch}\left(\frac{1}{x-1}\right) + b^{-c}\right)^{-c} e^{-a \cdot x},$$

$$"[a] \operatorname{arcesch}\left(\frac{1}{x-1}\right) + a - b^{-c} + c \int b^{-c} \left(\operatorname{arcesch}\left(\frac{1}{x-1}\right) + b^{-c}\right)^{-c-1} e^{-a \cdot \operatorname{arcesch}\left(\frac{1}{y-1}\right)}$$

$$\sqrt{x^2 - 2x + 2}$$

$$"[i] \operatorname{is}", 20,$$

$$"[i] \operatorname{arcesch}\left(\frac{1}{x-1}\right) + a - b^{-c} + c \operatorname{arctanh}\left(y^{-c}\right) + a^{-c}\right) b^{-c} \left(\frac{\operatorname{arctanh}\left(y^{-c}\right) b^{-c} + 1}{\operatorname{arctanh}\left(y^{-c}\right) b^{-c} + 1}\right)^{-c} e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(y^{-c}\right)}}$$

$$= \left(\operatorname{arctanh}\left(y^{-c}\right) a^{-c} b^{-c} + c \operatorname{arctanh}\left(y^{-c}\right) b^{-c}\right) b^{-c} \left(\frac{\operatorname{arctanh}\left(y^{-c}\right) b^{-c} + 1}{\operatorname{arctanh}\left(y^{-c}\right) b^{-c}}\right)^{-c} e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(y^{-c}\right)}}$$

$$= \left(\operatorname{arctanh}\left(\frac{1}{x}\right), \operatorname{arctanh}\left(\frac{1}{x}\right), \operatorname{arctanh}\left(\frac{1}{x}\right), \operatorname{arctanh}\left(\frac{1}{x}\right) b^{-c}\right) e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(x\right)}}$$

$$= \left(\operatorname{arctanh}\left(x\right) a^{-c} b^{-c} + c \operatorname{arctanh}\left(x\right) + a^{-c}\right) b^{-c} \left(\operatorname{arctanh}\left(x\right) b^{-c} + 1 \right) e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(x\right)}}$$

$$= \left(\operatorname{arctanh}\left(x\right) a^{-c} b^{-c} + c \operatorname{arctanh}\left(x\right) + a^{-c}\right) b^{-c} \left(\operatorname{arctanh}\left(x\right) b^{-c}\right) e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(x\right)}}$$

$$= \left(\operatorname{arctanh}\left(x\right) a^{-c} b^{-c} + c \operatorname{arctanh}\left(x\right) + a^{-c}\right) b^{-c} \left(\operatorname{arctanh}\left(x\right) b^{-c}\right) e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(x\right)}}$$

$$= \left(\operatorname{arctanh}\left(x\right) a^{-c} b^{-c} + c \operatorname{arctanh}\left(x\right) + a^{-c}\right) b^{-c} \left(\operatorname{arctanh}\left(x\right) b^{-c}\right) e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(x\right)}}$$

$$= \left(\operatorname{arctanh}\left(x\right) a^{-c} b^{-c} + c \operatorname{arctanh}\left(x\right) a^{-c}\right) b^{-c} \left(\operatorname{arctanh}\left(x\right) a^{-c}\right) e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(x\right)}}$$

$$= \left(\operatorname{arctanh}\left(x\right) a^{-c} b^{-c} + c \operatorname{arctanh}\left(x\right) a^{-c}\right) b^{-c} \left(\operatorname{arctanh}\left(x\right) a^{-c}\right) e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(x\right)}}$$

$$= \left(\operatorname{arctanh}\left(x\right) a^{-c}\right) b^{-c} \left(\operatorname{arctanh}\left(x\right) a^{-c}\right) b^{-c} \left(\operatorname{arctanh}\left(x\right) a^{-c}\right) e^{-\frac{a^{-c}}{\operatorname{arctanh}\left(x\right)}}$$

$$= \left(\operatorname{arctanh}\left(x\right) a^{-c}\right) a^{-c} \left(\operatorname{arctanh}\left(x\right) a^{-c}\right) a^{-c} \left(\operatorname{arctanh}\left(x\right) a^{-c}\right) a^{-c} \left(\operatorname{arctanh}\left(x\right) a^{-c}\right) a^{-c} \left(\operatorname{arctanh}\left$$

$$g \coloneqq t \to \operatorname{csch}\left(\frac{1}{t}\right)$$

$$l \coloneqq 0$$

$$u \coloneqq \infty$$

$$Temp \coloneqq \left[\left[y \leftarrow \frac{a\operatorname{rccsch}(y \sim) \ a \sim b \sim + c \ \operatorname{arccsch}(y \sim) + a \sim) \ b \sim^{c}\left(\frac{\operatorname{arccsch}(y \sim) \ b \sim + 1}{\operatorname{arccsch}(y \sim) \ b \sim + 1}\right)^{-c} e^{-\frac{a \sim}{\operatorname{arccsch}(y \sim)}}\right]$$

$$= \frac{(\operatorname{arccsch}(y \sim) \ b \sim + 1) \sqrt{y \sim^{2} + 1} \ \operatorname{arccsch}(y \sim)^{2} \ |y \sim|}{\left(\operatorname{arccsch}(x) \ b \sim + 1\right) \sqrt{y \sim^{2} + 1} \ \operatorname{arccsch}(y \sim)^{2} \ |y \sim|}$$

$$= \frac{(\operatorname{arccsch}(x) \ a \sim b \sim + c \ \operatorname{arccsch}(x) + a \sim) \ b \sim^{c} \left(\frac{\operatorname{arccsch}(x) \ b \sim + 1}{\operatorname{arccsch}(x) \ b \sim + 1}\right)^{-c} e^{-\frac{a \sim}{\operatorname{arccsch}(x)}}$$

$$= \frac{(\operatorname{arccsch}(x) \ a \sim b \sim + c \ \operatorname{arccsch}(x) + a \sim) \ b \sim^{c} \left(\frac{\operatorname{arccsch}(x) \ b \sim + 1}{\operatorname{arccsch}(x) \ b \sim + 1}\right)^{-c} e^{-\frac{a \sim}{\operatorname{arccsch}(x)}}$$

$$= \frac{a \sim}{\operatorname{arccsch}(x) \ b \sim + 1} \sqrt{x^{2} + 1} \ \operatorname{arccsch}(x)^{2} \ |x|$$

$$= \frac{a \sim}{\operatorname{arccsch}(x) \ b \sim + 1} \sqrt{x^{2} + 1} \ \operatorname{arccsch}(x)^{2} \ |x|$$

$$= \frac{a \sim}{\operatorname{arccsch}(x) \ b \sim + 1} \sqrt{x^{2} + 1} \ \operatorname{arccsch}(x)^{2} \ |x|$$

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$$= \frac{a \sim}{\operatorname{arccsch}(x) \ b \sim + 1} \sqrt{x^{2} + 1} \ \operatorname{arccsch}(x)^{2} \ |x|$$

$$= \frac{a \sim}{\operatorname{arccsch}(x) \ b \sim + 1} \sqrt{x^{2} + 1} \sqrt{x^{2} + 1} \sqrt{x^{2} + 1} \sqrt{x^{2$$