"WeibullRV(a,b)"

$$[x \mapsto b \, a^b x^{b-1} e^{-(a \, x)^b}]$$

 $t \mapsto t^2$

Probability Distribution Function

$$f(x) = 1/2 b a^b x^{b/2-1} e^{-a^b x^{b/2}}$$
 $0 < x < \infty$

 $t \mapsto \sqrt{t}$

Probability Distribution Function

$$f(x) = 2 \frac{b a^b (x^2)^b e^{-a^b (x^2)^b}}{x}$$
 $0 < x < \infty$

 $t \mapsto t^{-1}$

Probability Distribution Function

$$f(x) = \frac{b a^b (x^{-1})^b e^{-a^b (x^{-1})^b}}{x}$$
 $0 < x < \infty$

 $t \mapsto \arctan(t)$

Probability Distribution Function

$$f(x) = b a^b (\tan(x))^{b-1} e^{-a^b (\tan(x))^b} (1 + (\tan(x))^2)$$
 $0 < x < \pi/2$

 $t \mapsto e^t$

$$f(x) = \frac{b a^b (\ln(x))^{b-1} e^{-a^b (\ln(x))^b}}{x}$$
 $1 < x < \infty$

$$t \mapsto \ln(t)$$

Probability Distribution Function

$$f(x) = b a^b e^{-a^b e^{b x} + b x}$$
 $-\infty < x < \infty$

$$t \mapsto e^{-t}$$

Probability Distribution Function

$$f(x) = \frac{b a^{b} (-\ln(x))^{b-1} e^{-a^{b} (-\ln(x))^{b}}}{x} \qquad 0 < x < 1$$

$$t \mapsto -\ln(t)$$

Probability Distribution Function

$$f(x) = b a^b e^{-a^b e^{-bx} - bx} \qquad -\infty < x < \infty$$

$$t \mapsto \ln(t+1)$$

$$f(x) = b a^b (e^x - 1)^{b-1} e^{-a^b (e^x - 1)^b + x}$$
 $0 < x < \infty$

$$t \mapsto (\ln(t+2))^{-1}$$

$$f(x) = \frac{b a^b \left(e^{x^{-1}} - 2\right)^{b-1}}{x^2} e^{-\frac{a^b \left(e^{x^{-1}} - 2\right)^b x - 1}{x}} \qquad 0 < x < (\ln(2))^{-1}$$

$$t \mapsto \tanh(t)$$

Probability Distribution Function

$$f(x) = -\frac{b a^b \left(\operatorname{arctanh}(x)\right)^{b-1} e^{-a^b \left(\operatorname{arctanh}(x)\right)^b}}{x^2 - 1} \qquad 0 < x < 1$$

$$t \mapsto \sinh(t)$$

Probability Distribution Function

$$f(x) = \frac{b a^b \left(\operatorname{arcsinh}(x)\right)^{b-1} e^{-a^b \left(\operatorname{arcsinh}(x)\right)^b}}{\sqrt{x^2 + 1}} \qquad 0 < x < \infty$$

$$t \mapsto \operatorname{arcsinh}(t)$$

Probability Distribution Function

$$f(x) = b a^b (\sinh(x))^{b-1} e^{-a^b (\sinh(x))^b} \cosh(x)$$
 $0 < x < \infty$

$$t \mapsto \operatorname{csch}(t+1)$$

$$f(x) = \frac{b a^b (-1 + \operatorname{arccsch}(x))^{b-1} e^{-a^b (-1 + \operatorname{arccsch}(x))^b}}{\sqrt{x^2 + 1} |x|} \qquad 0 < x < 2 (e - e^{-1})^{-1}$$

$$t \mapsto \operatorname{arccsch}(t+1)$$

$$f(x) = -\frac{b a^b \cosh(x)}{\left(\sinh(x) - 1\right) \sinh(x)} \left(-\frac{\sinh(x) - 1}{\sinh(x)}\right)^b e^{-a^b \left(-\frac{\sinh(x) - 1}{\sinh(x)}\right)^b} \qquad 0 < x < \ln\left(1 + \sqrt{2}\right)$$

$$t \mapsto (\tanh(t+1))^{-1}$$

Probability Distribution Function

$$f(x) = \frac{b a^b \left(-1 + \operatorname{arctanh}(x^{-1})\right)^{b-1} e^{-a^b \left(-1 + \operatorname{arctanh}(x^{-1})\right)^b}}{x^2 - 1} \qquad 1 < x < \frac{e + e^{-1}}{e - e^{-1}}$$

$$t \mapsto (\sinh(t+1))^{-1}$$

Probability Distribution Function

$$f(x) = \frac{b a^b (-1 + \operatorname{arcsinh}(x^{-1}))^{b-1} e^{-a^b (-1 + \operatorname{arcsinh}(x^{-1}))^b}}{\sqrt{x^2 + 1} |x|} \qquad 0 < x < 2 (e - e^{-1})^{-1}$$

$$t \mapsto (\operatorname{arcsinh}(t+1))^{-1}$$

Probability Distribution Function

$$f(x) = \frac{b a^b (-1 + \sinh(x^{-1}))^{b-1} e^{-a^b (-1 + \sinh(x^{-1}))^b} \cosh(x^{-1})}{x^2} \qquad 0 < x < \left(\ln\left(1 + \sqrt{2}\right)\right)^{-1}$$

$$t \mapsto (\operatorname{csch}(t))^{-1} + 1$$

$$f(x) = \frac{b a^b \left(\operatorname{arccsch}\left((x-1)^{-1}\right)\right)^{b-1} e^{-a^b \left(\operatorname{arccsch}\left((x-1)^{-1}\right)\right)^b}}{\sqrt{x^2 - 2x + 2}} \qquad 1 < x < \infty$$

$$t \mapsto \tanh\left(t^{-1}\right)$$

$$f(x) = -\frac{b a^b \left(\left(\operatorname{arctanh}(x)\right)^{-1}\right)^b e^{-a^b \left(\left(\operatorname{arctanh}(x)\right)^{-1}\right)^b}}{\operatorname{arctanh}(x) \left(x^2 - 1\right)} \qquad 0 < x < 1$$

$$t \mapsto \operatorname{csch}\left(t^{-1}\right)$$

Probability Distribution Function

$$f(x) = \frac{b a^b \left(\operatorname{arccsch}(x)\right)^{-b-1} e^{-a^b \left(\operatorname{arccsch}(x)\right)^{-b}}}{\sqrt{x^2 + 1} |x|} \qquad 0 < x < \infty$$

$$t \mapsto \operatorname{arccsch}\left(t^{-1}\right)$$

$$f(x) = b a^b (\sinh(x))^{b-1} e^{-a^b (\sinh(x))^b} \cosh(x)$$
 $0 < x < \infty$