"ExponentialRV(a)"

$$[x \mapsto a\,\mathrm{e}^{-a\,x}]$$

$$t \mapsto t^2$$

Probability Distribution Function

$$f(x) = 1/2\,\frac{a\,\mathrm{e}^{-a\,\sqrt{x}}}{\sqrt{x}} \qquad 0 < x < \infty$$

$$t \mapsto \sqrt{t}$$

Probability Distribution Function

$$f(x) = 2\,a\,\mathrm{e}^{-a\,x^2}x \qquad 0 < x < \infty$$

$$t \mapsto t^{-1}$$

Probability Distribution Function

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

$$t \mapsto \arctan(t)$$

Probability Distribution Function

$$f(x) = \frac{a}{(\cos(x))^2}\mathrm{e}^{-\frac{a\,\sin(x)}{\cos(x)}} \qquad 0 < x < \pi/2$$

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

Probability Distribution Function

$$f(x) = a\,x^{-a-1} \qquad 1 < x < \infty$$

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

Probability Distribution Function

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

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

Probability Distribution Function

$$f(x) = a\,x^{a-1} \qquad 0 < x < 1$$

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

Probability Distribution Function

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

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

Probability Distribution Function

$$f(x) = a\,\mathrm{e}^{-a\,\mathrm{e}^{x}+a+x} \qquad 0 < x < \infty$$

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

Probability Distribution Function

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

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

Probability Distribution Function

$$f(x) = -\frac{a\,\mathrm{e}^{-a\,\mathrm{arctanh}(x)}}{x^2-1} \qquad 0 < x < 1$$

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

Probability Distribution Function

$$f(x) = \frac{a\,\mathrm{e}^{-a\,\mathrm{arcsinh}(x)}}{\sqrt{x^2+1}} \qquad 0 < x < \infty$$

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

Probability Distribution Function

$$f(x) = a\,\mathrm{e}^{-a\,\sinh(x)}\cosh(x) \qquad 0 < x < \infty$$

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

Probability Distribution Function

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

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

Probability Distribution Function

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

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

Probability Distribution Function

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

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

Probability Distribution Function

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

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

Probability Distribution Function

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

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

Probability Distribution Function

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

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

Probability Distribution Function

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

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

Probability Distribution Function

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

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

Probability Distribution Function

$$f(x) = a\,\mathrm{e}^{-a\,\sinh(x)} \cosh(x) \qquad 0 < x < \infty$$