$$\sqrt{\frac{1}{\pi x^3}} e^{-\frac{1}{9} \frac{(x-3)^2}{x}}$$

"i is", 2,

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

$$l := 0$$

$$u := \infty$$

$$Temp := \left[ \left[ y \to \frac{2 e^{-\frac{1}{9} \frac{(y - 2 - 3)^2}{y - y}}}{y \to \sqrt{\pi} |y \to 1|} \right], [0, \infty], ["Continuous", "PDF"] \right]$$

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

$$"g(x)", \sqrt{x}, "base", \sqrt{\frac{1}{\pi x^3}} e^{-\frac{1}{9} \frac{(x - 3)^2}{x}}, "InverseGaussianRV(2,3)"$$

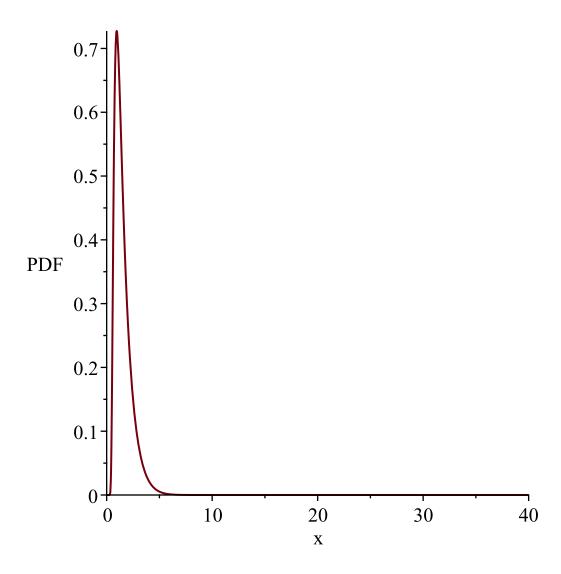
$$"f(x)", \frac{2 e^{-\frac{1}{9} \frac{(x^2 - 3)^2}{x^2}}}{x \sqrt{\pi} |x|}$$

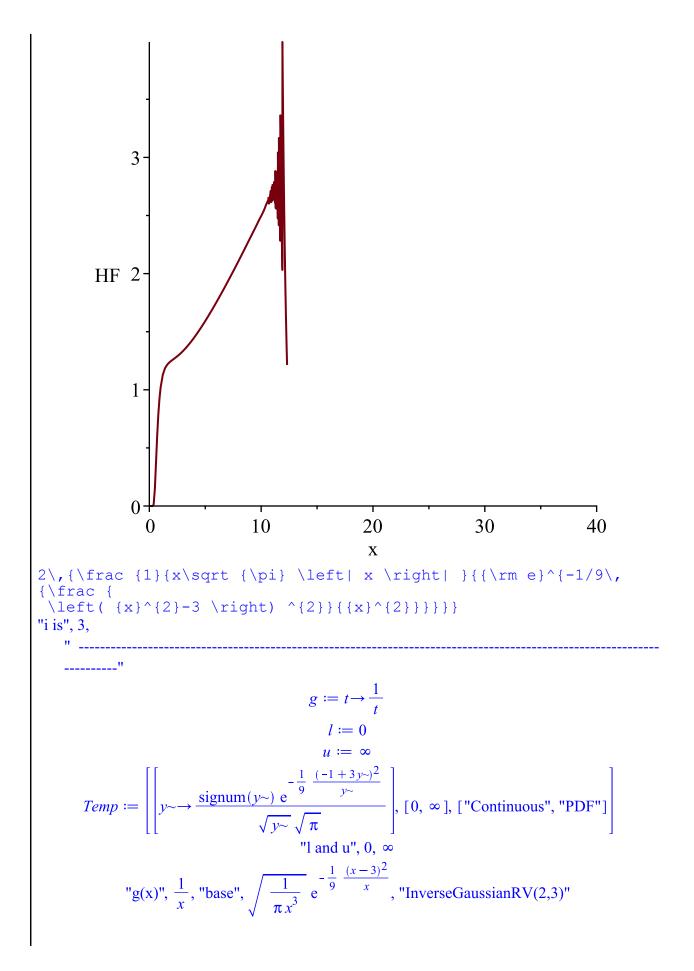
$$-\sqrt{\pi} + 2 \left( \int_0^x \frac{e^{-\frac{1}{9} \frac{(x^2 - 3)^2}{t^2}}}{t |t|} dt \right)$$

$$"S(x)", -\frac{2 e^{-\frac{1}{9} \frac{(x^2 - 3)^2}{t^2}}}{x |x|}$$

$$"h(x)", -\frac{2 e^{-\frac{1}{9} \frac{(x^2 - 3)^2}{t^2}}}{x |x|} dt \right)$$

$$x |x| \left( -\sqrt{\pi} + 2 \left( \int_0^x \frac{e^{-\frac{1}{9} \frac{(x^2 - 3)^2}{t^2}}}{t |t|} dt \right) \right)$$
"mean and variance",  $\frac{2 e^{\frac{2}{3}} \text{ BesselK}(0, \frac{2}{3})}{x^2}, -\frac{4 e^{\frac{4}{3}} \text{ BesselK}(0, \frac{2}{3})^2 - 3 \pi$ 



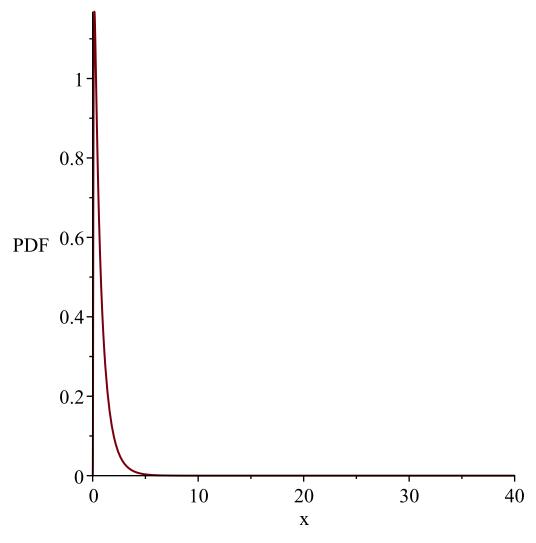


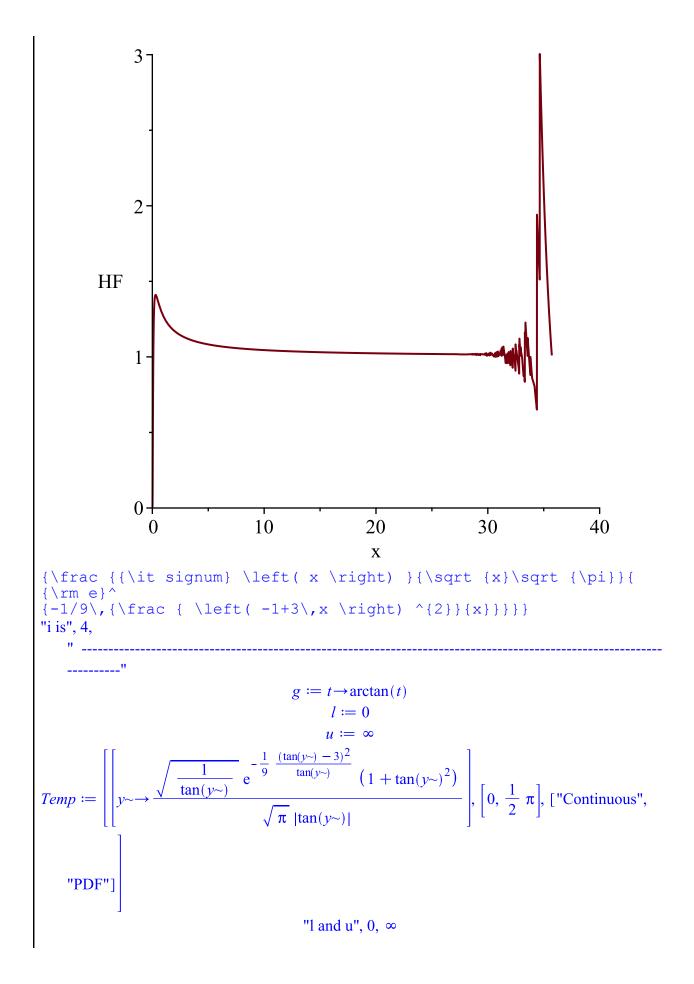
"f(x)", 
$$\frac{\text{signum}(x)}{\sqrt{x}} e^{-\frac{1}{9} \frac{(-1+3x)^2}{x}}$$

"S(x)",  $\frac{1}{2} - \frac{1}{2} e^{\frac{4}{3}} \operatorname{erf}\left(\frac{1}{3} \frac{3x+1}{\sqrt{x}}\right) - \frac{1}{2} \operatorname{erf}\left(\frac{1}{3} \frac{-1+3x}{\sqrt{x}}\right) + \frac{1}{2} e^{\frac{4}{3}}$ 

"h(x)",  $-\frac{2 \operatorname{signum}(x)}{\sqrt{x} \sqrt{\pi}} \left(e^{\frac{4}{3}} \operatorname{erf}\left(\frac{1}{3} \frac{3x+1}{\sqrt{x}}\right) - e^{\frac{4}{3}} + \operatorname{erf}\left(\frac{1}{3} \frac{-1+3x}{\sqrt{x}}\right) - 1\right)$ 

"mean and variance",  $\frac{5}{6}$ ,  $\frac{2}{3}$ 



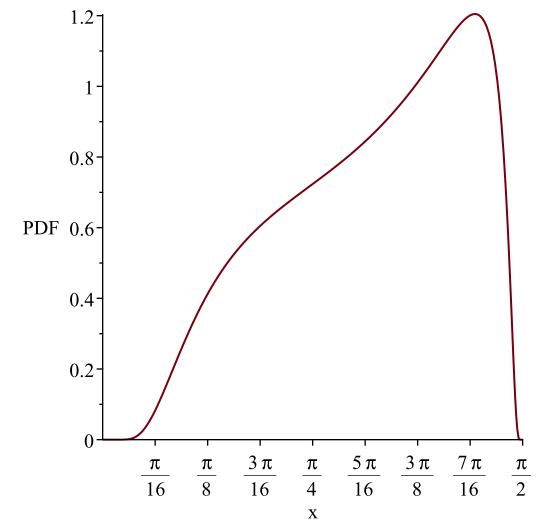


"g(x)", 
$$\arctan(x)$$
, "base",  $\sqrt{\frac{1}{\pi x^{3}}} = \frac{1}{9} \frac{(x-3)^{2}}{x}$ , "InverseGaussianRV(2,3)"

$$\frac{1}{\tan(x)} = \frac{1}{9} \frac{1}{\tan(x)} \left(1 + \tan(x)^{2}\right) - \frac{1}{10} \frac{1}{\tan(x)} \left(1 + \tan(x)^{2}\right) - \frac{1}{10} \frac{1}{\sin(x)} \left(1 + \tan(x)^{2}\right) - \frac{1}{10} \frac{1}{10} \frac{1}{\sin(x)} \left(1 + \tan(x)^{2}\right) - \frac{1}{10} \frac{1}{10} \frac{1}{\sin(x)} \left(1 + \tan(x)^{2}\right) - \frac{1}{10} \frac$$

variable, 
$$\frac{1}{2}$$
  $\pi$ 

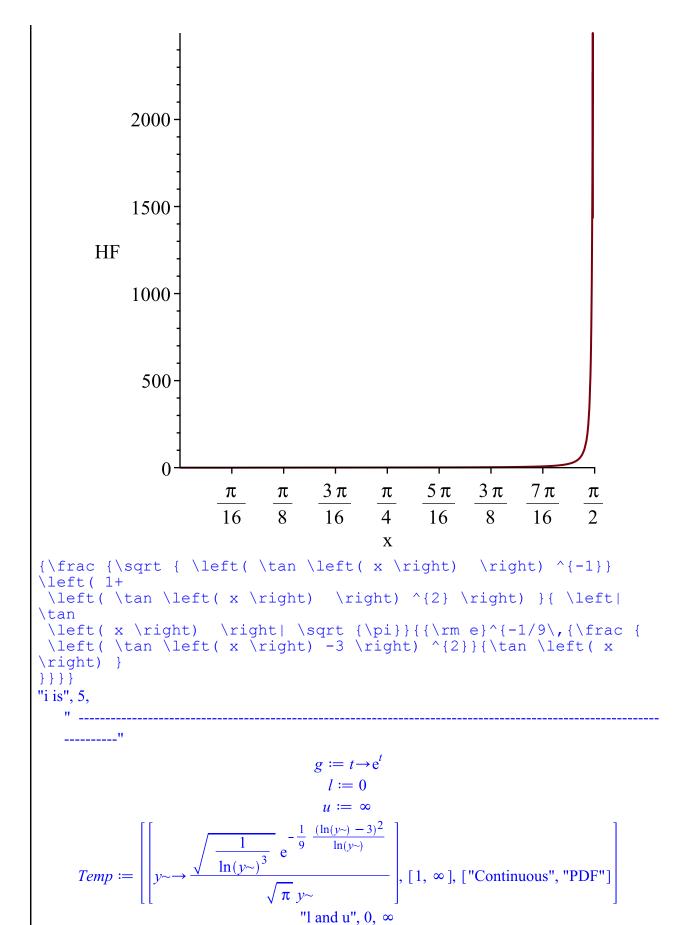
Resetting high to RV's maximum support value



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

*variable*, 
$$\frac{1}{2}$$
  $\pi$ 

Resetting high to RV's maximum support value



"g(x)", 
$$e^x$$
, "base",  $\sqrt{\frac{1}{\pi x^3}} e^{-\frac{1}{9} \frac{(x-3)^2}{x}}$ , "InverseGaussianRV(2,3)"

$$\sqrt{\frac{1}{\ln(x)^3}} e^{-\frac{1}{9} \frac{(\ln(x)-3)^2}{\ln(x)}}$$

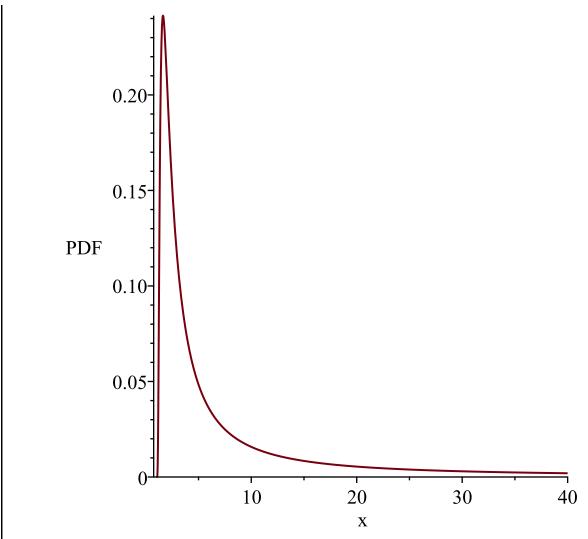
$$\sqrt{\pi} x$$

$$\sqrt{\pi} - \left(\int_1^x \sqrt{\frac{1}{\ln(t)^3}} e^{-\frac{1}{9} \frac{(\ln(t)-3)^2}{\ln(t)}} dt\right)$$
"S(x)", 
$$\sqrt{\pi}$$

$$\sqrt{\frac{1}{\ln(x)^3}} e^{-\frac{1}{9} \frac{(\ln(x)-3)^2}{\ln(x)}}$$
"h(x)", 
$$\sqrt{\pi} - \left(\int_1^x \sqrt{\frac{1}{\ln(t)^3}} e^{-\frac{1}{9} \frac{(\ln(t)-3)^2}{\ln(t)}} dt\right)$$

"mean and variance",  $\infty$ , undefined WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

Resetting low to RV's minimum support value



WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

Resetting low to RV's minimum support value

Warning, computation interrupted

[>