```
> restart;
  read("c:/appl/appl7.txt");
                                     PROCEDURES:
AllPermutations(n), AllCombinations(n, k), Benford(X), BootstrapRV(Data),
   CDF: CHF: HF: IDF: PDF: SF(X, [x])), CoefOfVar(X), Convolution(X, Y),
   Convolution IID(X, n), Critical Point(X, prob), Determinant(MATRIX), Difference(X, Y),
   Display(X), ExpectedValue(X, [g]), KSTest(X, Data, Parameters), Kurtosis(X),
   Maximum(X, Y), MaximumIID(X, n), Mean(X), MGF(X), Minimum(X, Y),
   MinimumIID(X, n), Mixture(MixParameters, MixRVs),
   MLE(X, Data, Parameters, [Rightcensor]), MLENHPP(X, Data, Parameters, obstime),
   MLEWeibull(Data, [Rightcensor]), MOM(X, Data, Parameters),
   NextCombination(Previous, size), NextPermutation(Previous), OrderStat(X, n, r, ["wo"]),
   PlotDist(X, [low], [high]), PlotEmpCDF(Data, [low], [high]),
   PlotEmpCIF(Data, [low], [high]), PlotEmpSF(Data, Censor),
   PlotEmpVsFittedCDF(X, Data, Parameters, [low], [high]),
   PlotEmpVsFittedCDF(X, Data, Parameters, [low], [high]),
   PlotEmpVsFittedSF(X, Data, Parameters, Censor, low, high),
   PPPlot(X, Data, Parameters), Product(X, Y), ProductIID(X, n),
   QQPlot(X, Data, Parameters), RangeStat(X, n, ["wo"]), Skewness(X), Transform(X, g),
   Truncate(X, low, high), Variance(X), VerifyPDF(X)
```

### Procedure Notation:

X and Y are random variables

Greek letters are numeric or symbolic parameters

x is numeric or symbolic

n and r are positive integers, n >= r

low and high are numeric

g is a function

Brackets [] denote optional parameters

"double quotes" denote character strings

MATRIX is a 2 x 2 array of random variables

A capitalized parameter indicates that it must be
entered as a list --> ex. Data := [1, 12.4, 34, 52.45, 63]

#### Variate Generation:

ArcTanVariate(alpha, phi), BinomialVariate(n, p, m), ExponentialVariate(lambda), NormalVariate(mu, sigma), UniformVariate(), WeibullVariate(lambda, kappa, m)

### DATA SETS:

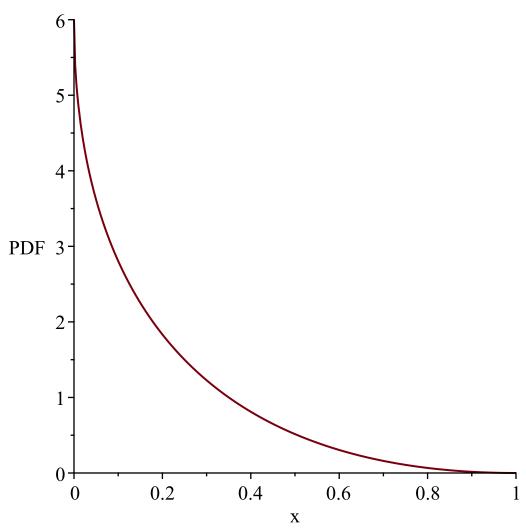
BallBearing, HorseKickFatalities, Hurricane, MP6, RatControl, RatTreatment, USSHalfBeak

ArcSinRV(), ArcTanRV(alpha, phi), BetaRV(alpha, beta), CauchyRV(a, alpha), ChiRV(n),

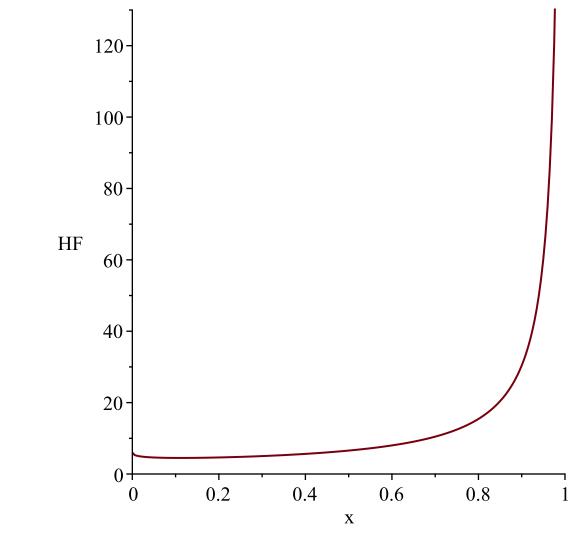
```
ExponentialPowerRV(lambda, kappa), ExtremeValueRV(alpha, beta), FRV(n1, n2),
   GammaRV(lambda, kappa), GeneralizedParetoRV(gamma, delta, kappa),
   GompertzRV(delta, kappa), HyperbolicSecantRV(), HyperExponentialRV(p, l),
   HypoExponentialRV(l), IDBRV(gamma, delta, kappa), InverseGaussianRV(lambda, mu),
   InvertedGammaRV(alpha, beta), KSRV(n), LaPlaceRV(omega, theta),
   LogGammaRV(alpha, beta), LogisticRV(kappa, lambda), LogLogisticRV(lambda, kappa),
   LogNormalRV(mu, sigma), LomaxRV(kappa, lambda), MakehamRV(gamma, delta, kappa),
   MuthRV(kappa), NormalRV(mu, sigma), ParetoRV(lambda, kappa), RayleighRV(lambda),
   StandardCauchyRV(), StandardNormalRV(), StandardTriangularRV(m),
   StandardUniformRV(), TRV(n), TriangularRV(a, m, b), UniformRV(a, b),
   WeibullRV(lambda, kappa)
Error, attempting to assign to `DataSets` which is protected.
     declaring `local DataSets`: see ?protect for details.
> bf := BetaRV(2,3);
  bfname := "BetaRV(2,3)";
              bf := [[x \rightarrow 12 \ x \ (1-x)^2], [0, 1], ["Continuous", "PDF"]]
                           bfname := "BetaRV(2,3)"
                                                                              (1)
> #plot(1/csch(t)+1, t = 0..0.0010);
   #plot(diff(1/csch(t),t), t=0..0.0010);
   \#limit(1/csch(t), t=0);
> solve(exp(-t) = y, t);
                                   -\ln(y)
                                                                              (2)
|> # discarded -ln(t + 1), t-> csch(t),t->arccsch(t),t -> tan(t),
> #name of the file for latex output
   filename := "C:/LatexOutput/Trash.tex";
   t \rightarrow 1/(\ln(t+2)), t \rightarrow \tanh(t), t \rightarrow \sinh(t), t \rightarrow arcsinh(t),
   t \to csch(t+1), t \to arccsch(t+1), t \to 1/tanh(t+1), t \to 1/sinh(t+1),
   t-> 1/\arcsin(t+1), t-> 1/\cosh(t)+1, t-> \tanh(1/t), t->csch
   (1/t), t-> arccsch(1/t), t-> arctanh(1/t) ]:
  base := t \rightarrow PDF(bf, t):
  print(base(x)):
   #begin loopint through transformations
   for i from 1 to 22 do
   #for i from 1 to 3 do
      print( "i is", i, "
     ------;
```

ChiSquareRV(n), ErlangRV(lambda, n), ErrorRV(mu, alpha, d), ExponentialRV(lambda),

```
g := glist[i]:
       1 := bf[2][1];
       Temp := Transform(bf, [[unapply(g(x), x)],[1,u]]);
     #terminal output
     PlotDist(PDF(Temp), 0, 40);
     PlotDist(HF(Temp), 0, 40);
  od;
                           filename := "C:/LatexOutput/Trash.tex"
                                         12 x \left(1 - x\right)^2
"i is", 1,
                                          g := t \rightarrow t^2
                                            l := 0
              Temp := \left[ \left[ y \sim \rightarrow 6 \left( -1 + \sqrt{y \sim} \right)^2 \right], [0, 1], ["Continuous", "PDF"] \right]
                     WARNING(PlotDist): High value provided by user, 40
                     is greater than maximum support value of the random
                                          variable, 1
                         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, 1

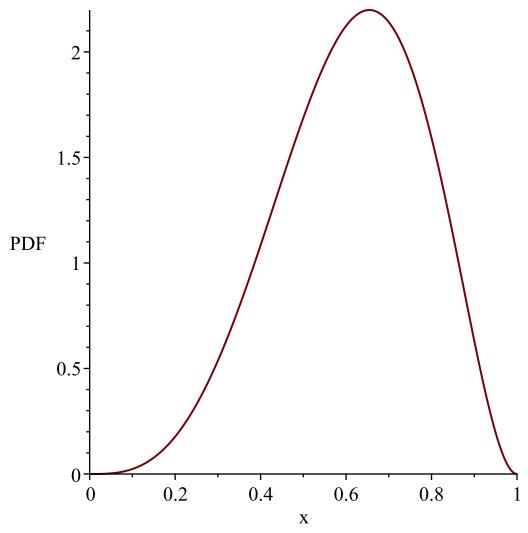


$$g := t \rightarrow \sqrt{t}$$

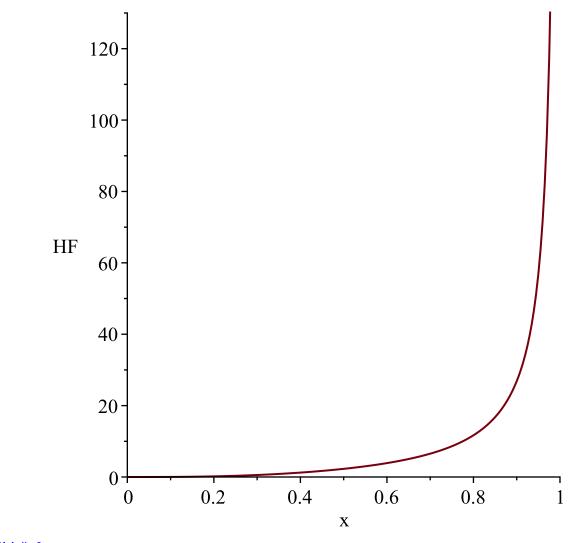
$$l := 0$$

$$u := 1$$

 $Temp := \left[ \left[ y \sim \rightarrow 24 \ y \sim^3 \left( y \sim^2 - 1 \right)^2 \right], \left[ 0, 1 \right], \left[ \text{"Continuous", "PDF"} \right] \right] \\ WARNING(PlotDist): High value provided by user, 40 \\ is greater than maximum support value of the random \\ variable, 1$ 



WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, 1

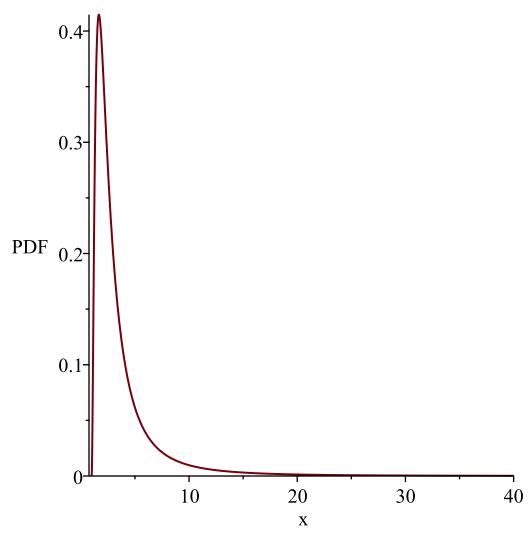


"i is", 3,

$$g \coloneqq t \to \frac{1}{t}$$
 
$$l \coloneqq 0$$
 
$$u \coloneqq 1$$
 
$$Temp \coloneqq \left[ \left[ y \sim \to \frac{12 \ (y \sim -1)^2}{y \sim^5} \right], \ [1, \, \infty], \ [\text{"Continuous", "PDF"}] \right]$$

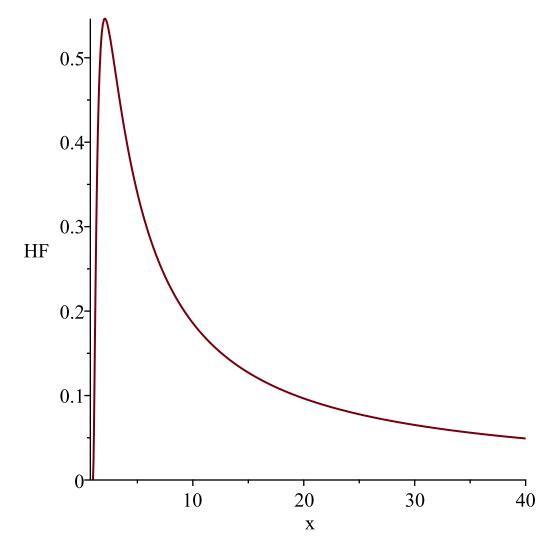
WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

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



"i is", 4,

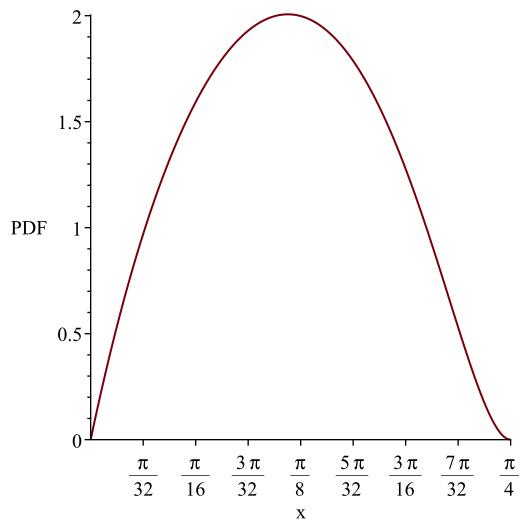
$$g := t \rightarrow \arctan(t)$$
$$l := 0$$

$$Temp := \left[ \left[ y \sim 12 \tan(y \sim) \left( -1 + \tan(y \sim) \right)^2 \left( 1 + \tan(y \sim)^2 \right) \right], \left[ 0, \frac{1}{4} \pi \right], \text{ ["Continuous",}$$

$$\text{"PDF"]} \right]$$

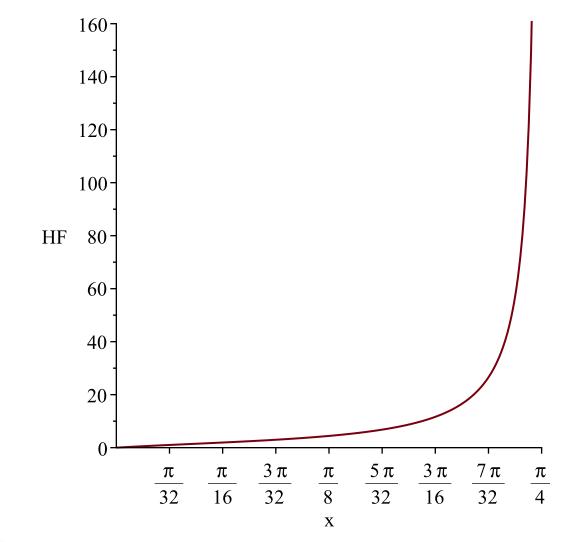
WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

variable, 
$$\frac{1}{4}$$
  $\pi$ 



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

*variable*, 
$$\frac{1}{4}$$
  $\pi$ 



"i is", 5,

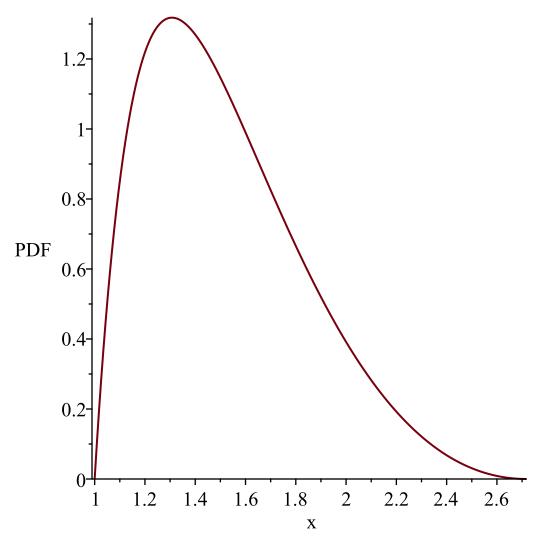
$$g := t \rightarrow e^t$$

$$l := 0$$

$$Temp := \left[ \left[ y \sim \frac{12 \ln(y \sim) \left( -1 + \ln(y \sim) \right)^2}{y \sim} \right], [1,e], ["Continuous", "PDF"] \right]$$

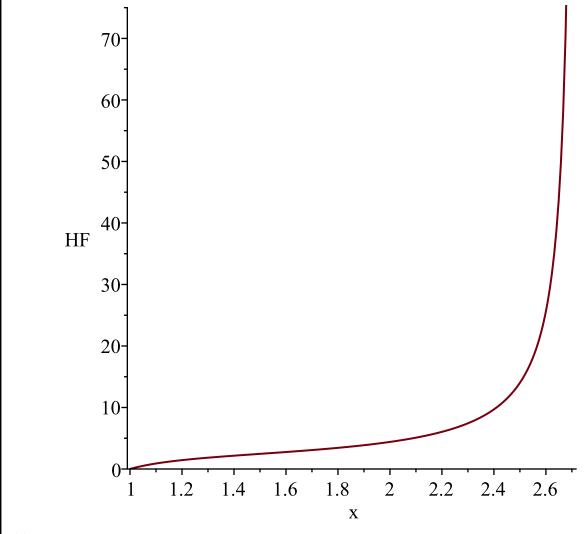
WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable,e



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): High value provided by user, 40 is greater than maximum support value of the random variable,e



"i is", 6,

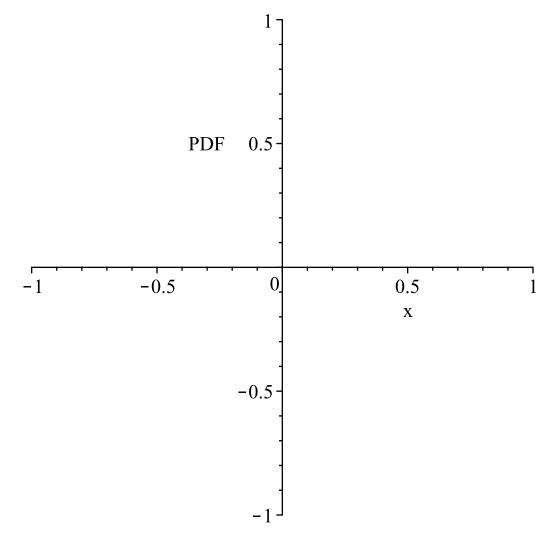
$$g := t \to \ln(t)$$

$$l := 0$$

$$u := 1$$

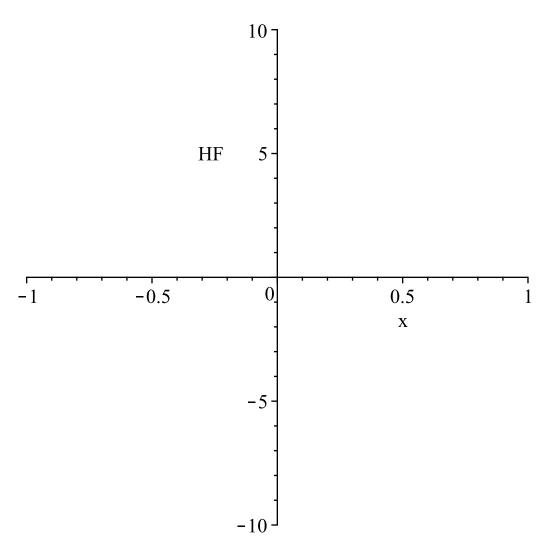
$$Temp := \left[ \left[ y \to 12 e^{2y^{-}} \left( -1 + e^{y^{-}} \right)^{2} \right], \left[ -\infty, 0 \right], \left[ \text{"Continuous", "PDF"} \right] \right]$$

WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, 0



WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, 0

Warning, unable to evaluate the function to numeric values in the region; see the plotting command's help page to ensure the calling sequence is correct



"i is", 7,

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

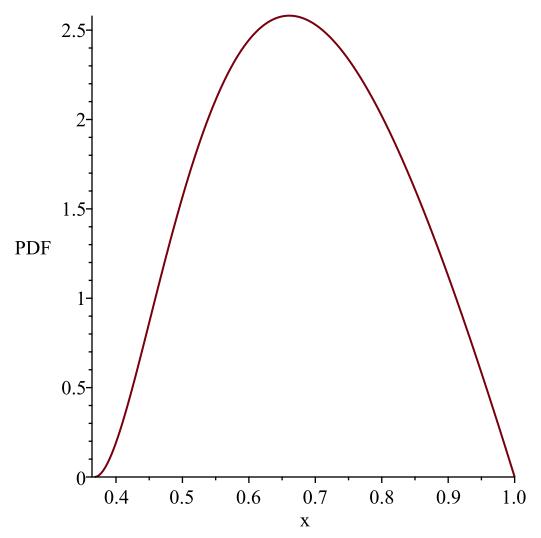
$$l := 0$$

$$u := 1$$

$$Temp := \left[ \left[ y \sim \rightarrow -\frac{12 \ln(y \sim) (1 + \ln(y \sim))^2}{y \sim} \right], \left[ e^{-1}, 1 \right], \left[ \text{"Continuous", "PDF"} \right] \right]$$

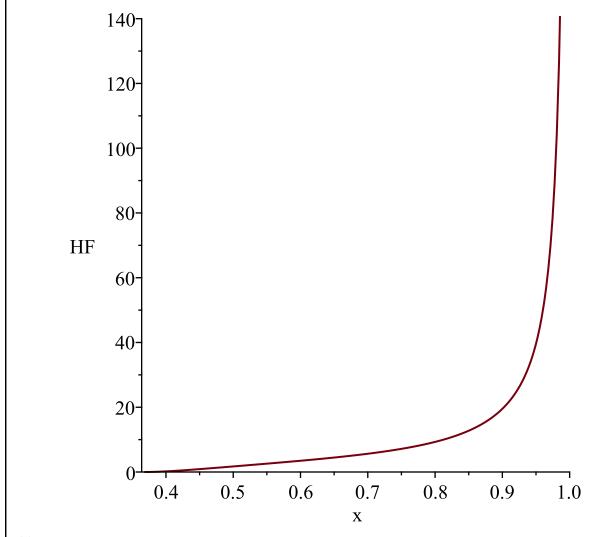
WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, 1



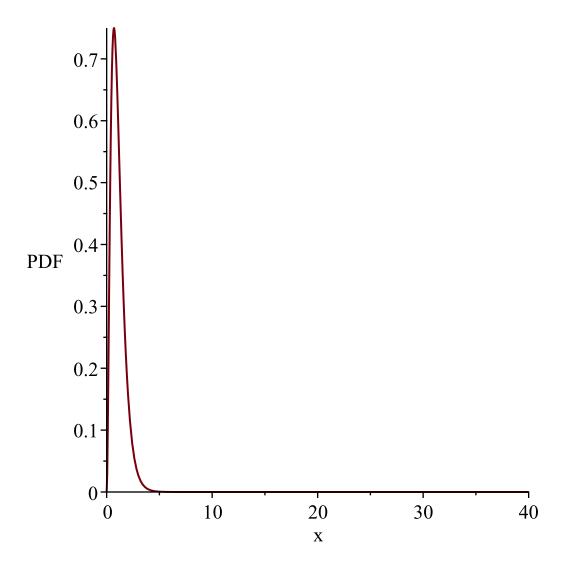
WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable  $e^{-1}$ 

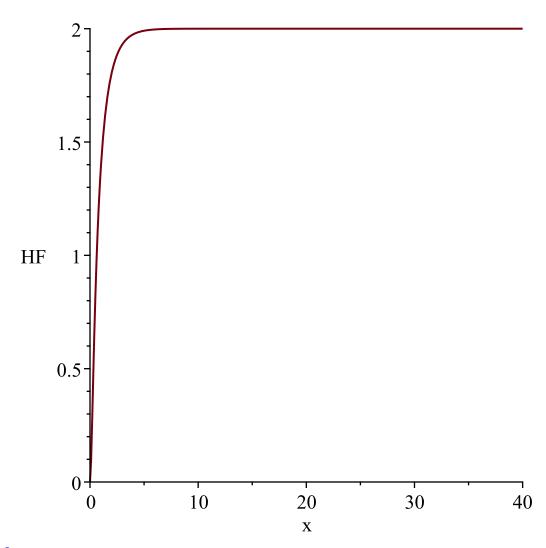
Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, 1



"i is", 8,

$$\begin{split} g &:= t \rightarrow -\ln(t) \\ l &:= 0 \\ u &:= 1 \end{split}$$
 
$$Temp := \left[ \left[ y \sim \rightarrow 12 \; \mathrm{e}^{-4y \sim} \left( -1 + \mathrm{e}^{y \sim} \right)^2 \right], \; [0, \; \infty], \; [\text{"Continuous", "PDF"]} \right] \end{split}$$





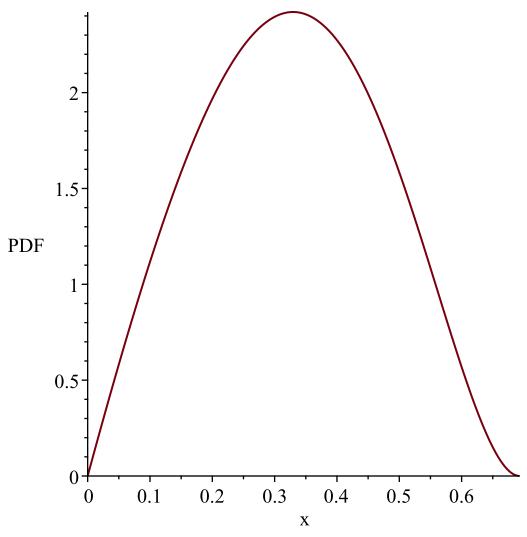
"i is", 9,

$$g := t \rightarrow \ln(t+1)$$

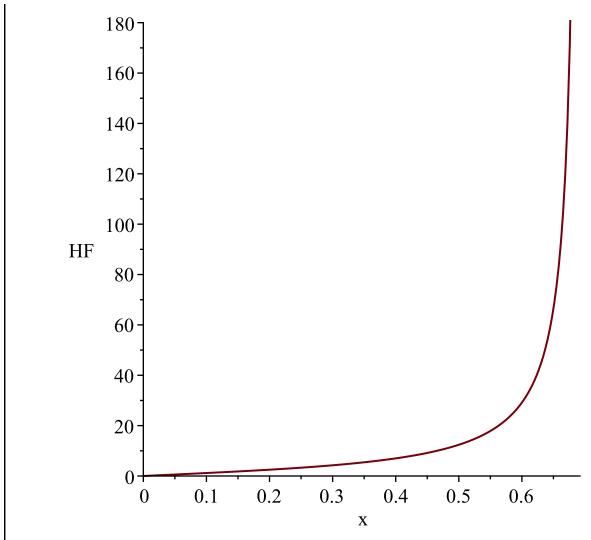
$$l := 0$$

$$u := 1$$

 $Temp := \left[ \left[ y \sim \rightarrow 12 \left( -1 + e^{y \sim} \right) \left( -2 + e^{y \sim} \right)^2 e^{y \sim} \right], \left[ 0, \ln(2) \right], \left[ \text{"Continuous", "PDF"} \right] \right]$  WARNING(PlotDist): High value provided by user, 40  $is \ greater \ than \ maximum \ support \ value \ of \ the \ random$   $variable, \ln(2)$ 



WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, ln(2)



"i is", 10,

$$g \coloneqq t \to \frac{1}{\ln(t+2)}$$

$$l \coloneqq 0$$

$$u \coloneqq 1$$

$$Temp \coloneqq \left[ \left[ y \to \frac{12 \left( e^{\frac{1}{y \sim}} - 2 \right) \left( -3 + e^{\frac{1}{y \sim}} \right)^2 e^{\frac{1}{y \sim}}}{y \sim^2} \right], \left[ \frac{1}{\ln(3)}, \frac{1}{\ln(2)} \right], \left[ \text{"Continuous"}, \right]$$

$$"PDF"]$$

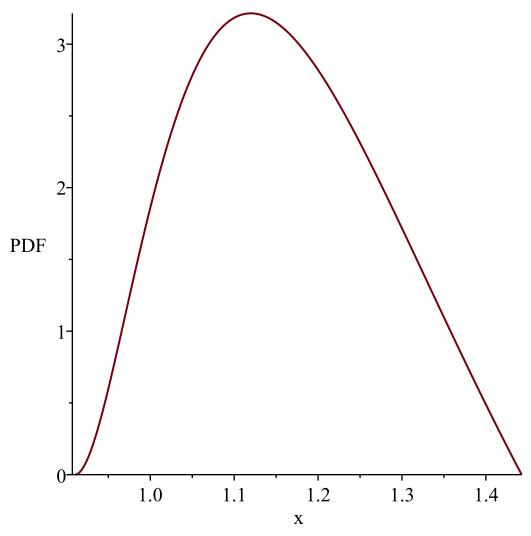
WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$\frac{1}{\ln(3)}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

variable, 
$$\frac{1}{\ln(2)}$$

Resetting high to RV's maximum support value

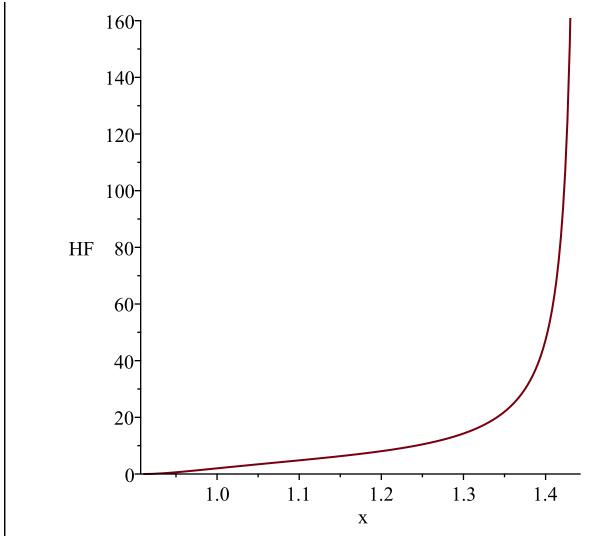


WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$\frac{1}{\ln(3)}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

*variable*, 
$$\frac{1}{\ln(2)}$$



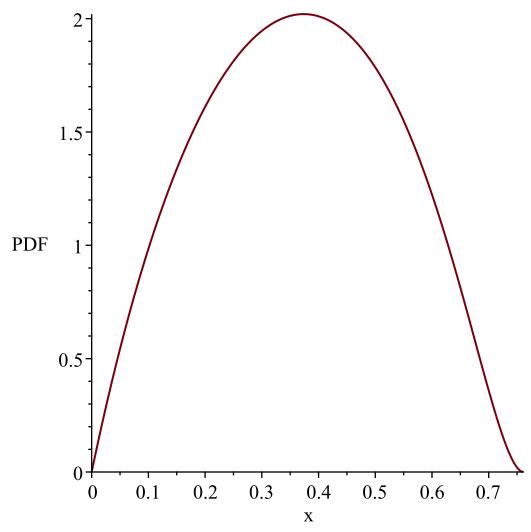
$$g := t \rightarrow \tanh(t)$$

$$l := 0$$

$$u := 1$$

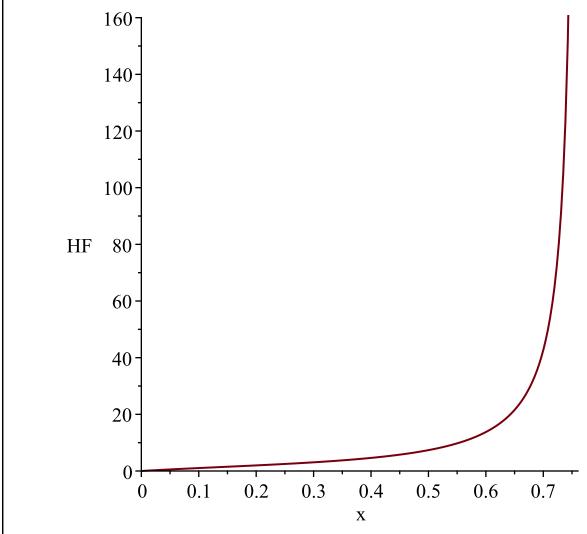
$$Temp := \left[ \left[ y \sim \rightarrow -\frac{12 \operatorname{arctanh}(y \sim) (-1 + \operatorname{arctanh}(y \sim))^{2}}{y \sim^{2} - 1} \right], [0, \tanh(1)], ["Continuous", "PDF"] \right]$$

WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, tanh(1)



WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, tanh(1)

Resetting high to RV's maximum support value



"i is", 12,

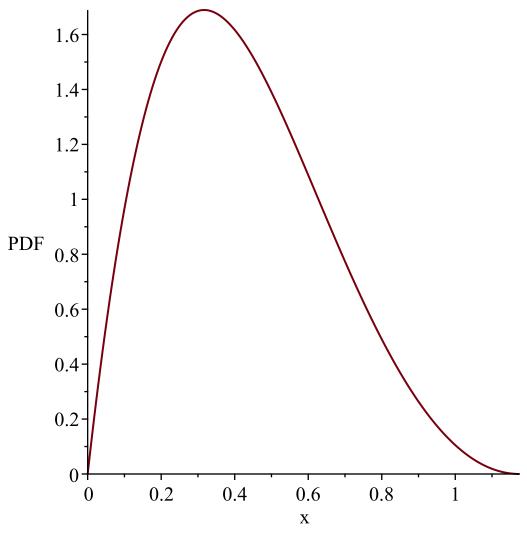
$$g := t \rightarrow \sinh(t)$$

$$l := 0$$

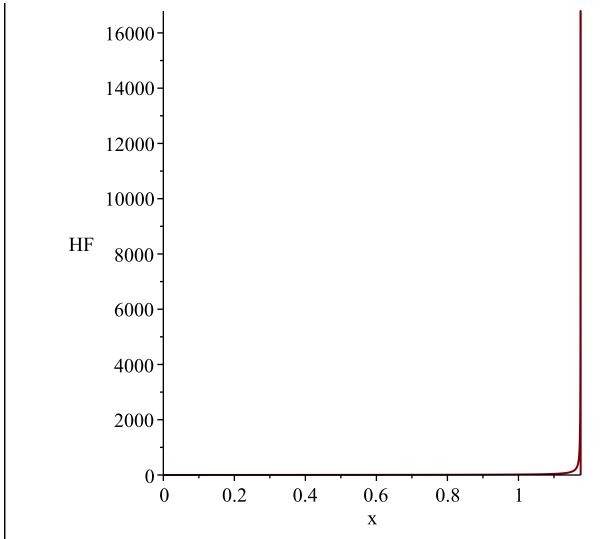
$$u := 1$$

$$Temp := \left[ \left[ y \sim \frac{12 \operatorname{arcsinh}(y \sim) (-1 + \operatorname{arcsinh}(y \sim))^{2}}{\sqrt{y \sim^{2} + 1}} \right], [0, \sinh(1)], ["Continuous", "PDF"] \right]$$

WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, sinh(1)



WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, sinh(1)
Resetting high to RV's maximum support value



"i is", 13,

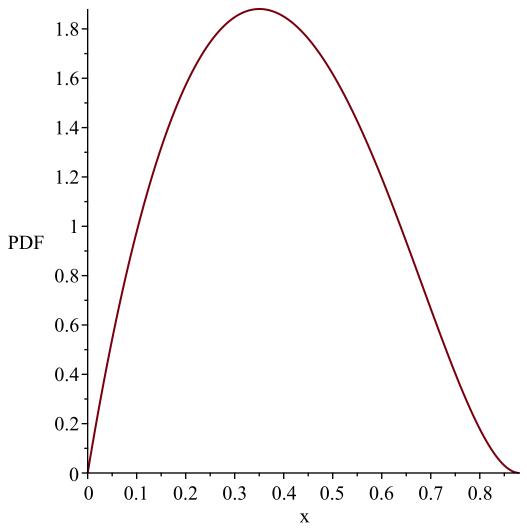
$$g := t \rightarrow \operatorname{arcsinh}(t)$$
$$l := 0$$

$$u := 1$$

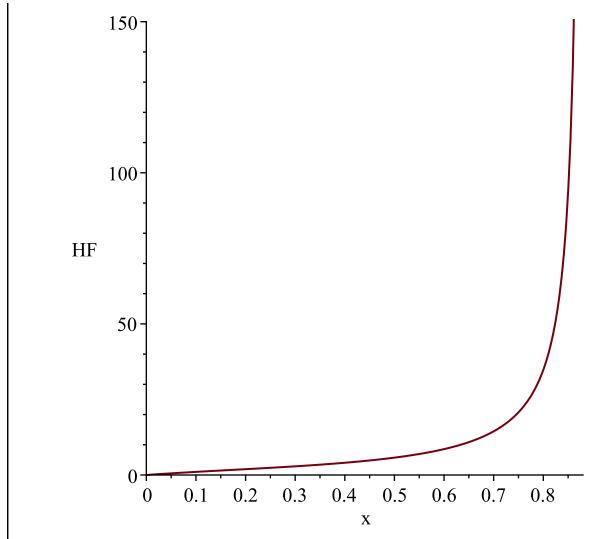
 $Temp := \left[ \left[ y \to -12 \sinh(y) \cosh(y) \left( -\cosh(y)^2 + 2 \sinh(y) \right) \right], \left[ 0, -\ln(\sqrt{2} - 1) \right], \right]$ ["Continuous", "PDF"]

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

*variable*, 
$$-\ln(\sqrt{2}-1)$$



WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable,  $-\ln(\sqrt{2}-1)$  Resetting high to RV's maximum support value



"i is", 14,

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

$$u := 1$$

$$Temp := \left[ \left[ y \sim \rightarrow \frac{12 \ (-1 + \operatorname{arccsch}(y \sim)) \ (-2 + \operatorname{arccsch}(y \sim))^2}{\sqrt{y \sim^2 + 1}} \right], \left[ -\frac{2}{e^{-2} - e^2}, -\frac{2}{-e + e^{-1}} \right],$$

["Continuous", "PDF"]

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

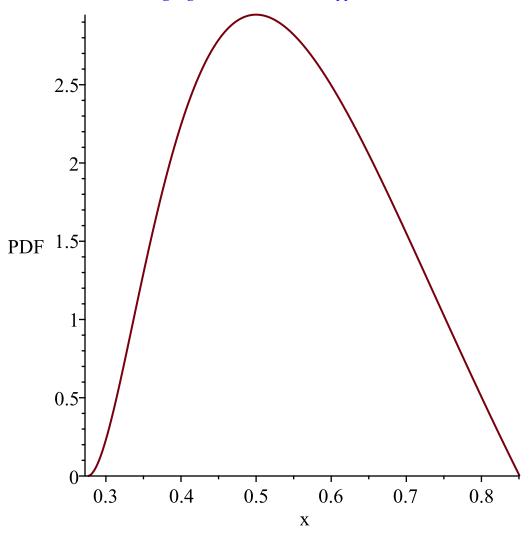
$$-\frac{2}{e^{-2}-e^2}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40

is greater than maximum support value of the random

*variable*, 
$$-\frac{2}{-e+e^{-1}}$$

Resetting high to RV's maximum support value

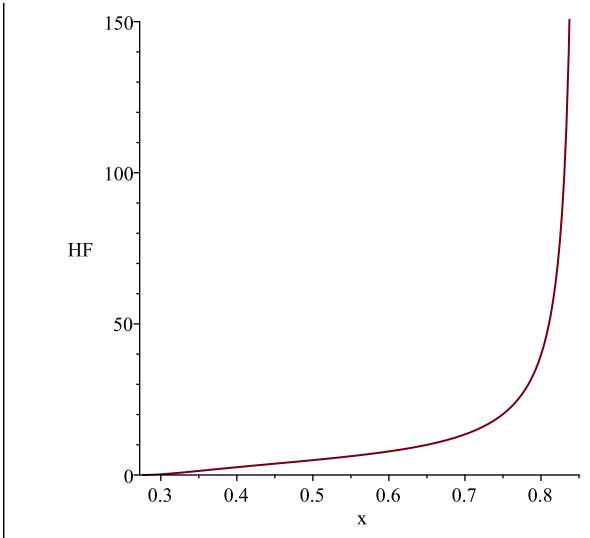


WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$-\frac{2}{e^{-2}-e^2}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

*variable*, 
$$-\frac{2}{-e+e^{-1}}$$



"i is", 15,

$$g := t \rightarrow \operatorname{arccsch}(t+1)$$
$$l := 0$$

$$u := 1$$

 $Temp := \left[ \left[ y \sim \rightarrow -\frac{12 \left( 4 \cosh(y \sim)^2 \sinh(y \sim) - 8 \cosh(y \sim)^2 + \sinh(y \sim) + 7 \right) \cosh(y \sim)}{\sinh(y \sim)^5} \right],$ 

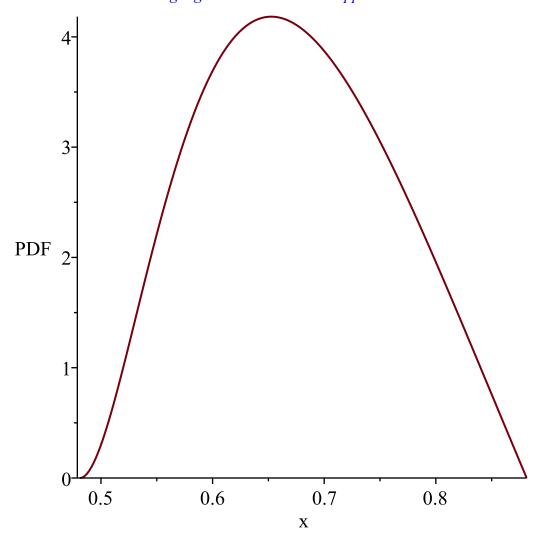
$$\left[\ln(2) - \ln(\sqrt{5} - 1), \ln(1 + \sqrt{2})\right]$$
, ["Continuous", "PDF"]

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

$$\ln(2) - \ln(\sqrt{5} - 1)$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

# variable, $\ln(1+\sqrt{2})$ Resetting high to RV's maximum support value

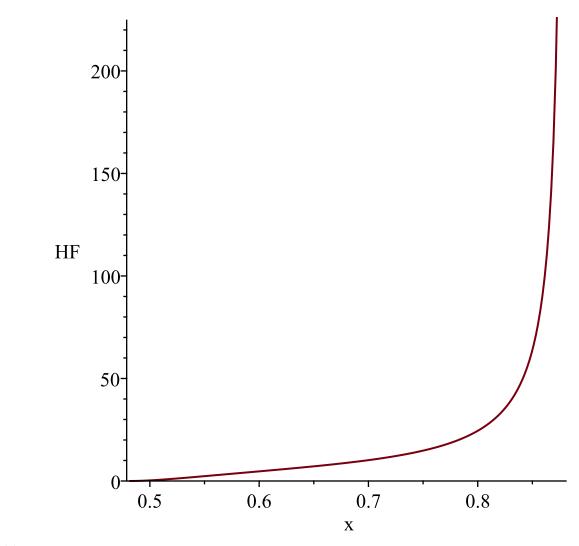


WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$\ln(2) - \ln(\sqrt{5} - 1)$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

*variable*, 
$$\ln(1+\sqrt{2})$$



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

$$Temp := \left[ \left[ y \sim \rightarrow \frac{12 \left( -1 + \operatorname{arctanh} \left( \frac{1}{y \sim} \right) \right) \left( -2 + \operatorname{arctanh} \left( \frac{1}{y \sim} \right) \right)^{2}}{y \sim^{2} - 1} \right], \left[ \frac{-e^{-2} - e^{2}}{e^{-2} - e^{2}}, \right]$$

$$\frac{e+e^{-1}}{e-e^{-1}}$$
, ["Continuous", "PDF"]

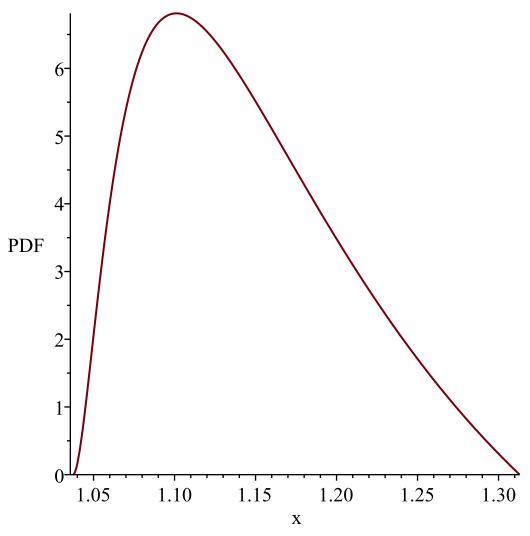
WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$\frac{-e^{-2}-e^2}{e^{-2}-e^2}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

variable, 
$$\frac{e+e^{-1}}{e-e^{-1}}$$

Resetting high to RV's maximum support value

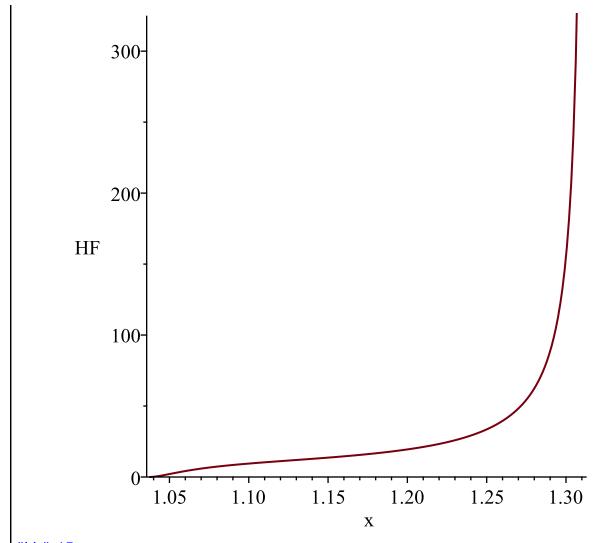


WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$\frac{-e^{-2}-e^2}{e^{-2}-e^2}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

variable, 
$$\frac{e+e^{-1}}{e-e^{-1}}$$



"i is", 17,

$$g := t \to \frac{1}{\sinh(t+1)}$$

$$l := 0$$

$$u := 1$$

$$f(t) = \int_{0}^{\infty} \int_{0}^{\infty} \frac{12\left(-1 + \arcsin\left(\frac{1}{y^{-}}\right)\right)\left(-2 + \arcsin\left(\frac{1}{y^{-}}\right)\right)^{2}}{\sqrt{2} + 1} dt$$

$$\frac{2}{e-e^{-1}}$$
, ["Continuous", "PDF"]

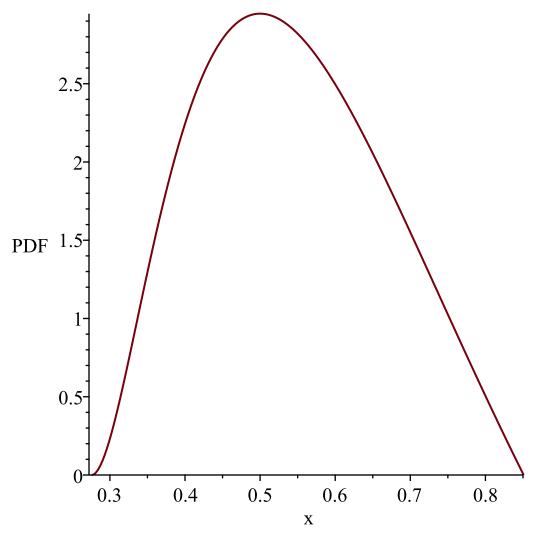
WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$-\frac{2}{e^{-2}-e^2}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

variable, 
$$\frac{2}{e-e^{-1}}$$

Resetting high to RV's maximum support value

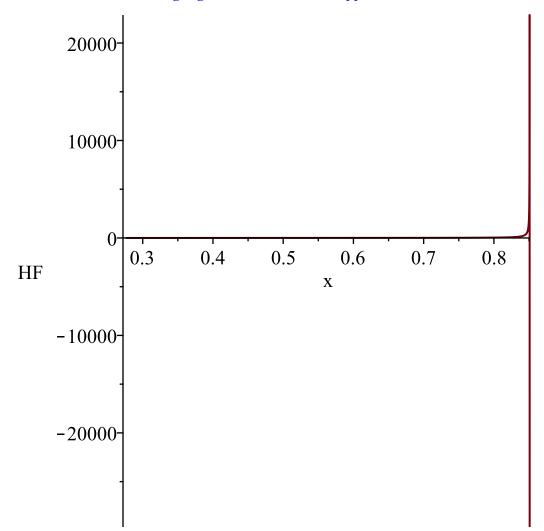


WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$-\frac{2}{e^{-2}-e^2}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

*variable*, 
$$\frac{2}{e-e^{-1}}$$



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

$$Temp := \begin{bmatrix} y_{\sim} \end{bmatrix}$$

$$\rightarrow \frac{12\left(\cosh\left(\frac{1}{y_{\sim}}\right)^{2}\sinh\left(\frac{1}{y_{\sim}}\right)-5\cosh\left(\frac{1}{y_{\sim}}\right)^{2}+7\sinh\left(\frac{1}{y_{\sim}}\right)+1\right)\cosh\left(\frac{1}{y_{\sim}}\right)}{y_{\sim}^{2}}\right], \left[\frac{1}{\ln(\sqrt{5}-2)}, \frac{1}{\ln(1+\sqrt{2})}\right], ["Continuous", "PDF"]$$

$$-\frac{1}{\ln(\sqrt{5}-2)}$$
,  $\frac{1}{\ln(1+\sqrt{2})}$ , ["Continuous", "PDF"]

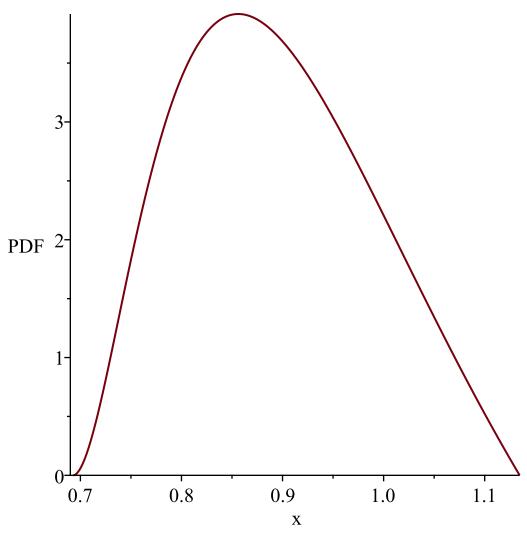
WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$-\frac{1}{\ln(\sqrt{5}-2)}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

variable, 
$$\frac{1}{\ln(1+\sqrt{2})}$$

Resetting high to RV's maximum support value

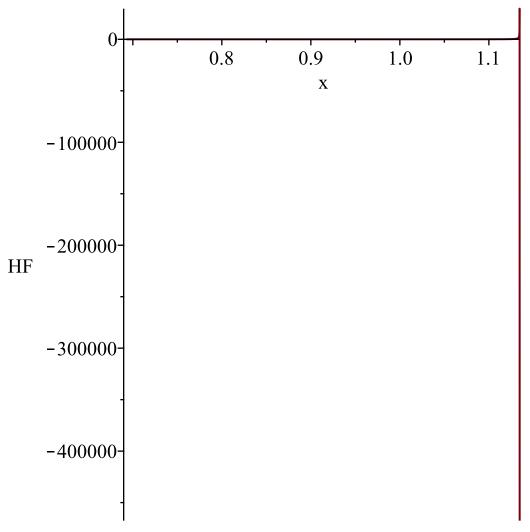


WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$-\frac{1}{\ln(\sqrt{5}-2)}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

variable, 
$$\frac{1}{\ln(1+\sqrt{2})}$$



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

$$l := 0$$

$$u := 1$$

$$Temp := \left[ \left[ y \sim \rightarrow \frac{12 \operatorname{arccsch}\left(\frac{1}{y \sim -1}\right) \left(-1 + \operatorname{arccsch}\left(\frac{1}{y \sim -1}\right)\right)^{2}}{\sqrt{y \sim^{2} - 2 y \sim + 2}} \right], \left[ 1, -\frac{1}{2} e^{-1} + \frac{1}{2} e^{-$$

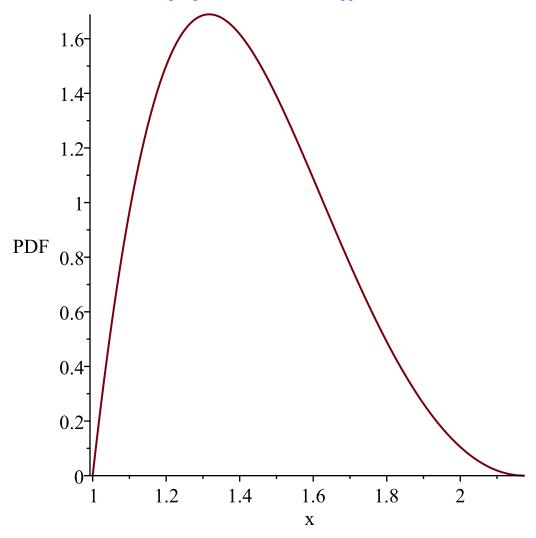
WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

1

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random

*variable*, 
$$-\frac{1}{2} e^{-1} + \frac{1}{2} e + 1$$

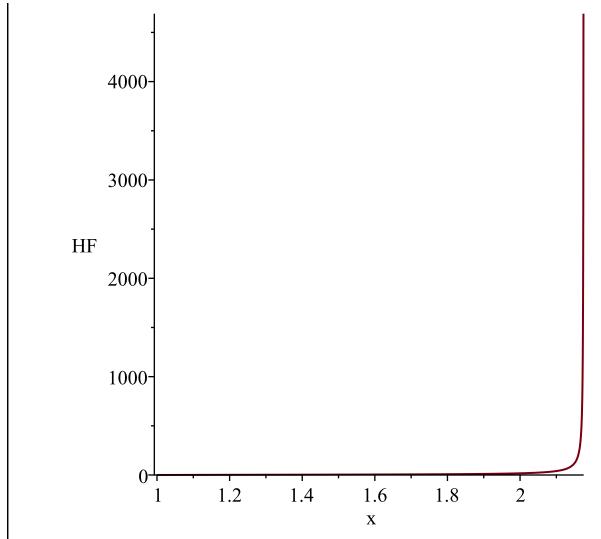
Resetting high to RV's maximum support value



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

*variable*, 
$$-\frac{1}{2} e^{-1} + \frac{1}{2} e + 1$$



"i is", 20,

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

$$l \coloneqq 0$$

$$u \coloneqq 1$$

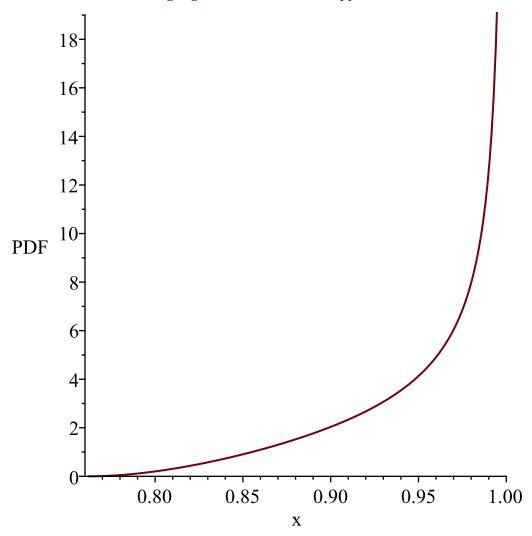
$$Temp \coloneqq \left[\left[y \to -\frac{12 \left(\operatorname{arctanh}(y \to -1)^{2}}{\operatorname{arctanh}(y \to )^{5} \left(y \to -1\right)}\right], \left[\frac{e - e^{-1}}{e + e^{-1}}, 1\right], \left[\text{"Continuous", "PDF"}\right]\right]$$

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

$$\frac{e - e^{-1}}{e + e^{-1}}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, 1

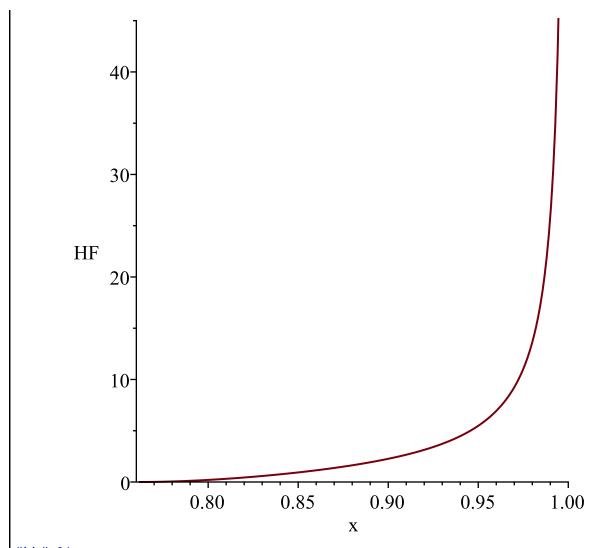




WARNING(PlotDist): Low value provided by user, 0 is less than minimum support value of random variable

$$\frac{e - e^{-1}}{e + e^{-1}}$$

Resetting low to RV's minimum support value WARNING(PlotDist): High value provided by user, 40 is greater than maximum support value of the random variable, 1



"i is", 21,

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

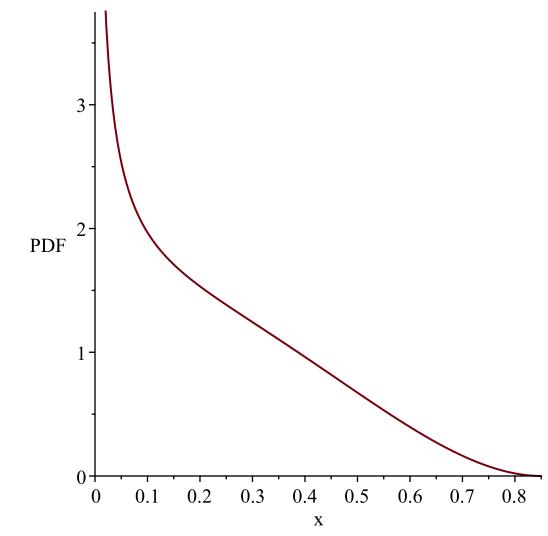
$$l \coloneqq 0$$

$$u \coloneqq 1$$

$$Temp \coloneqq \left[ \left[ y \sim \rightarrow \frac{12 \left(\operatorname{arccsch}(y \sim) - 1\right)^2}{\operatorname{arccsch}(y \sim)^5 \sqrt{y \sim^2 + 1} \ |y \sim|} \right], \left[ 0, -\frac{2}{-e + e^{-1}} \right], \left[ \text{"Continuous", "PDF"} \right] \right]$$

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

*variable*, 
$$-\frac{2}{-e+e^{-1}}$$



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

*variable*, 
$$-\frac{2}{-e+e^{-1}}$$

Warning, computation interrupted