

## Re: Finding the inverf

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On Dec 2, 9:43 pm, morg...@xxxxxxxxxx wrote:

Could someone tell me how to calculate inverf (x) if I am given the value of erf (x).

Here's a relatively simple approximation for inverf[x]:

With[{t = -2\*Log[1-|x|]}, Sign[x]\*Sqrt[(t -  
Log[1 + t + (.01167845\*t+.1066561)\*t^2/  
((.02118035\*t+.3710243)\*t+1)])/2]]

The maximum absolute error is about  $3.6 \cdot 10^{-5}$   
for all x in (-1,1) in 64-bit IEEE format.