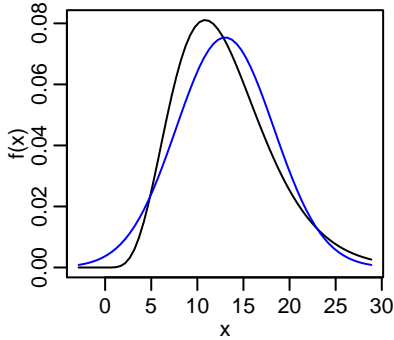
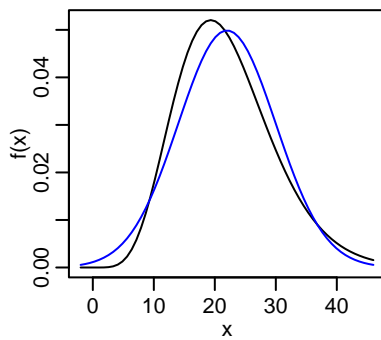


# non-central chisq(\*, df= 12 ) and normal approx

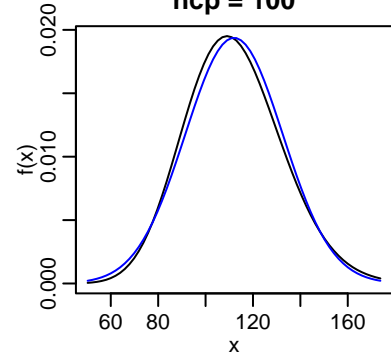
**ncp = 1**



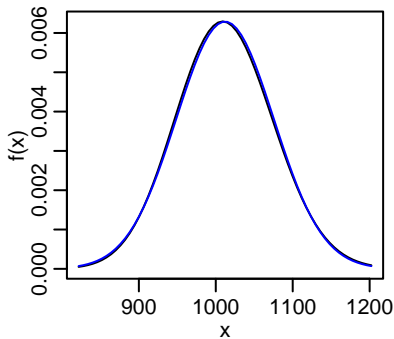
**ncp = 10**



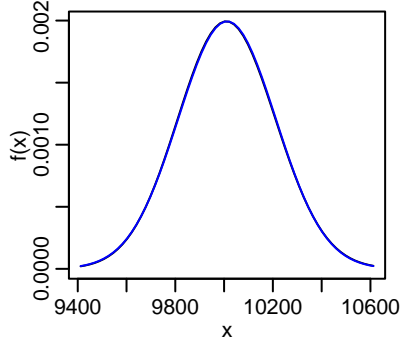
**ncp = 100**



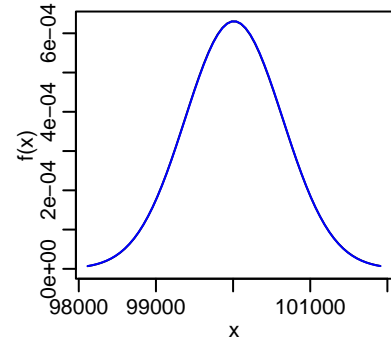
**ncp = 1000**



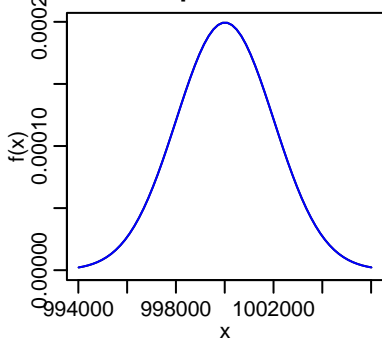
**ncp = 10000**



**ncp = 1e+05**



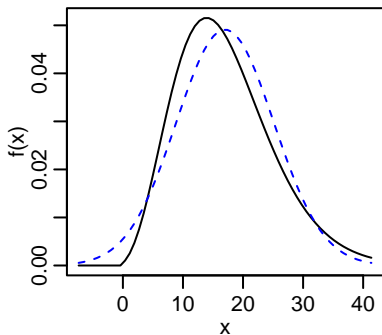
**ncp = 1e+06**



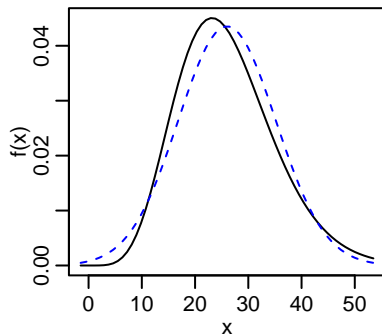


# non-central chisq(ncp = 16) and normal approx

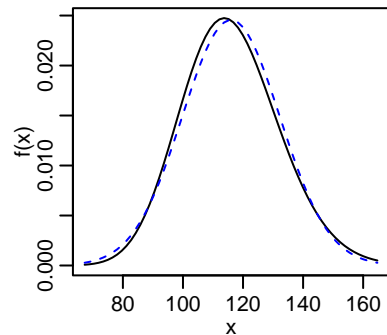
**df = 1**



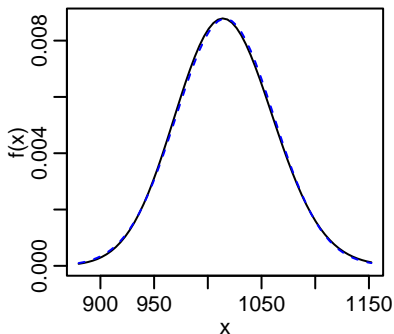
**df = 10**



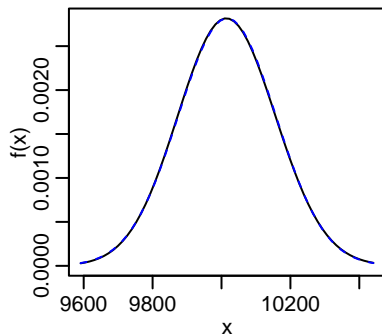
**df = 100**



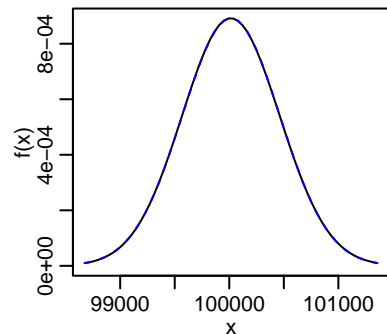
**df = 1000**



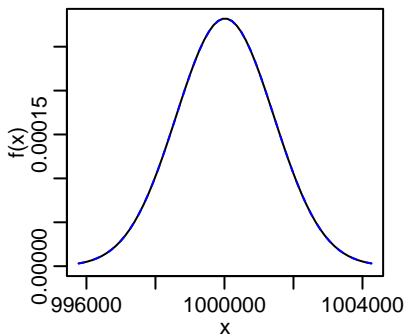
**df = 10000**



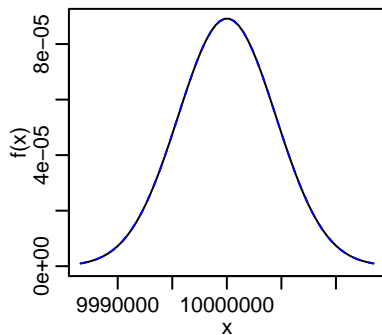
**df = 1e+05**



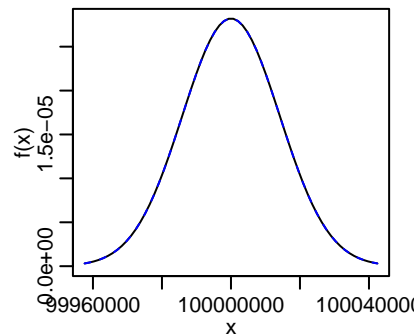
**df = 1e+06**

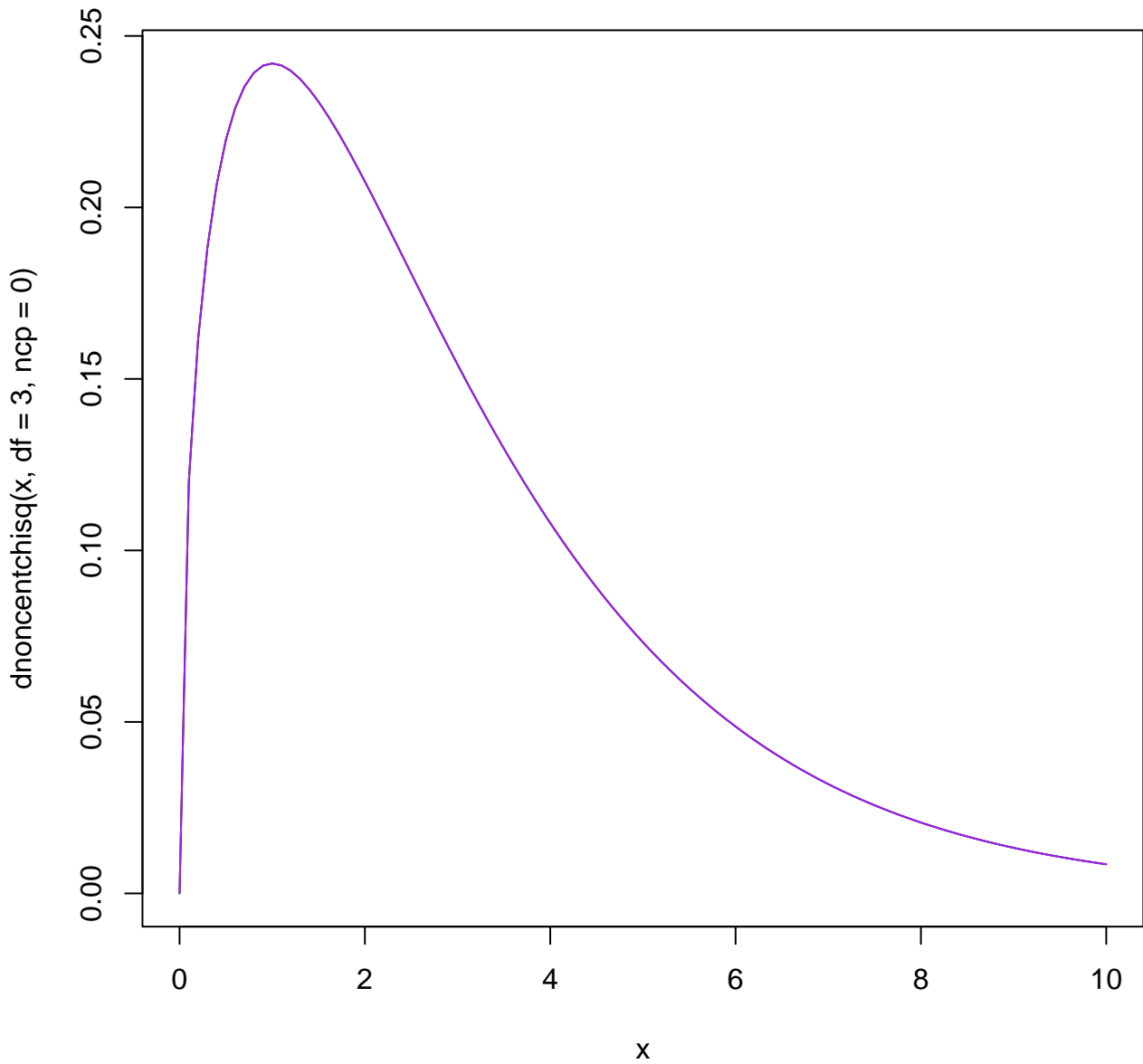


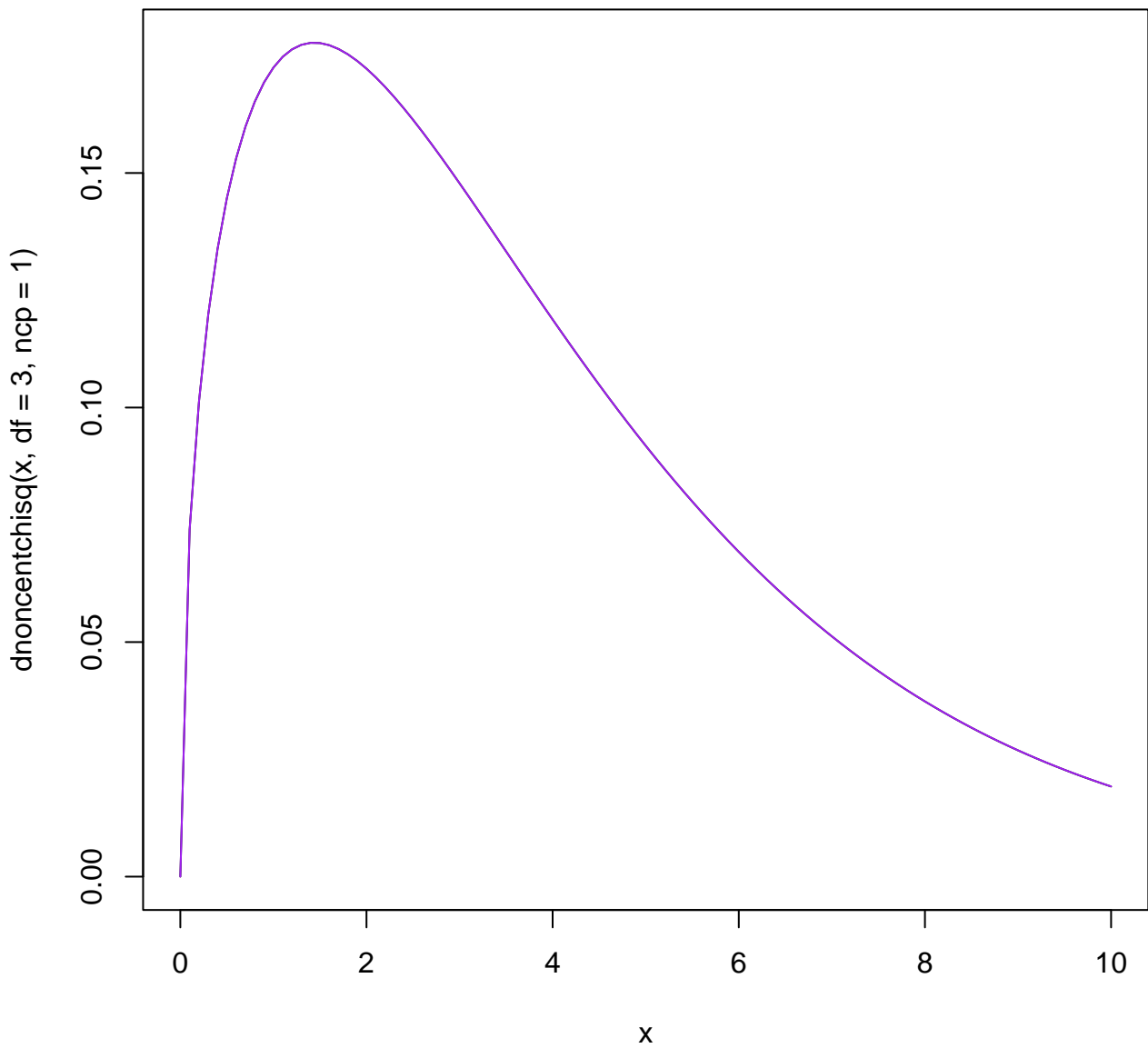
**df = 1e+07**



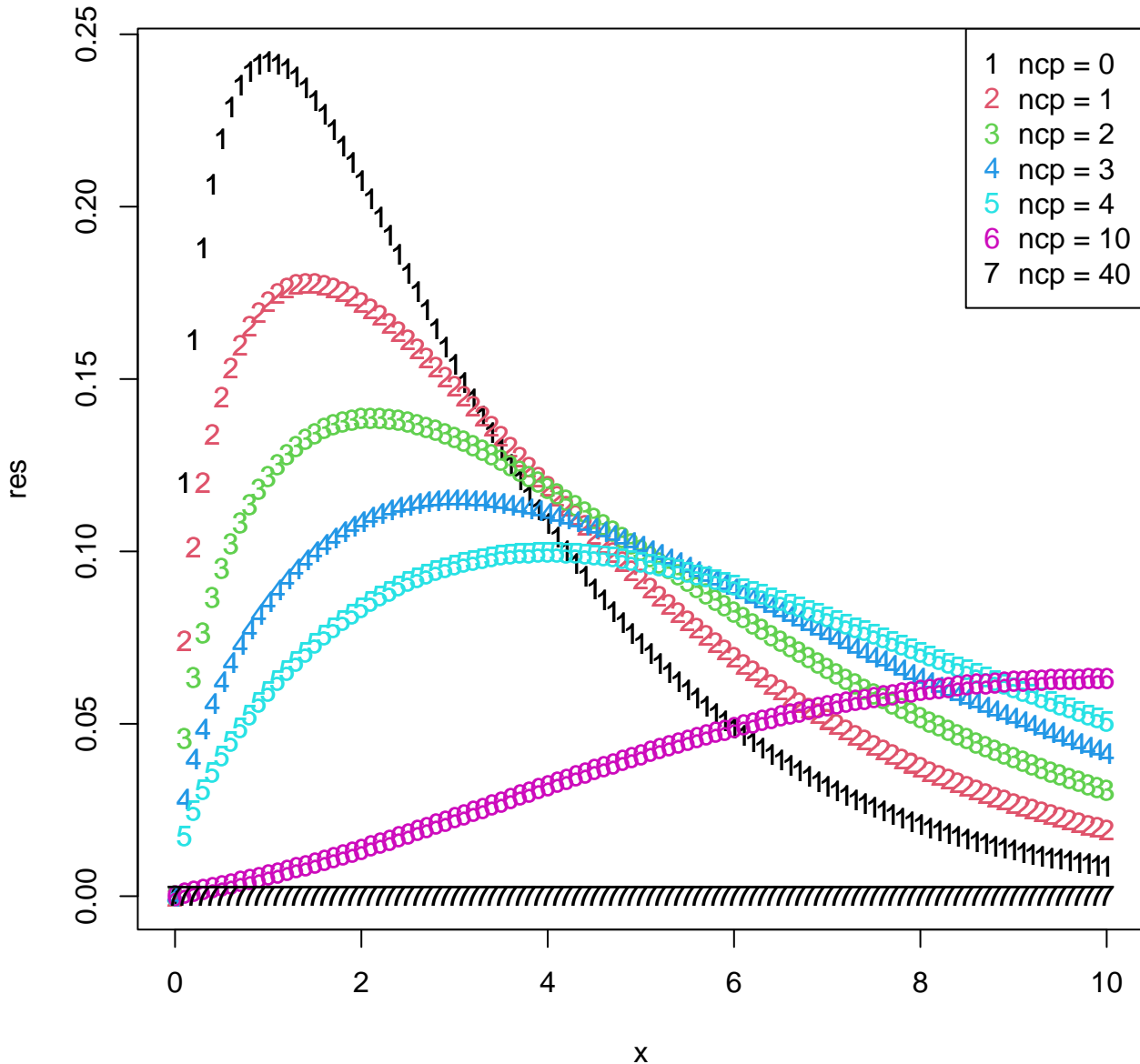
**df = 1e+08**



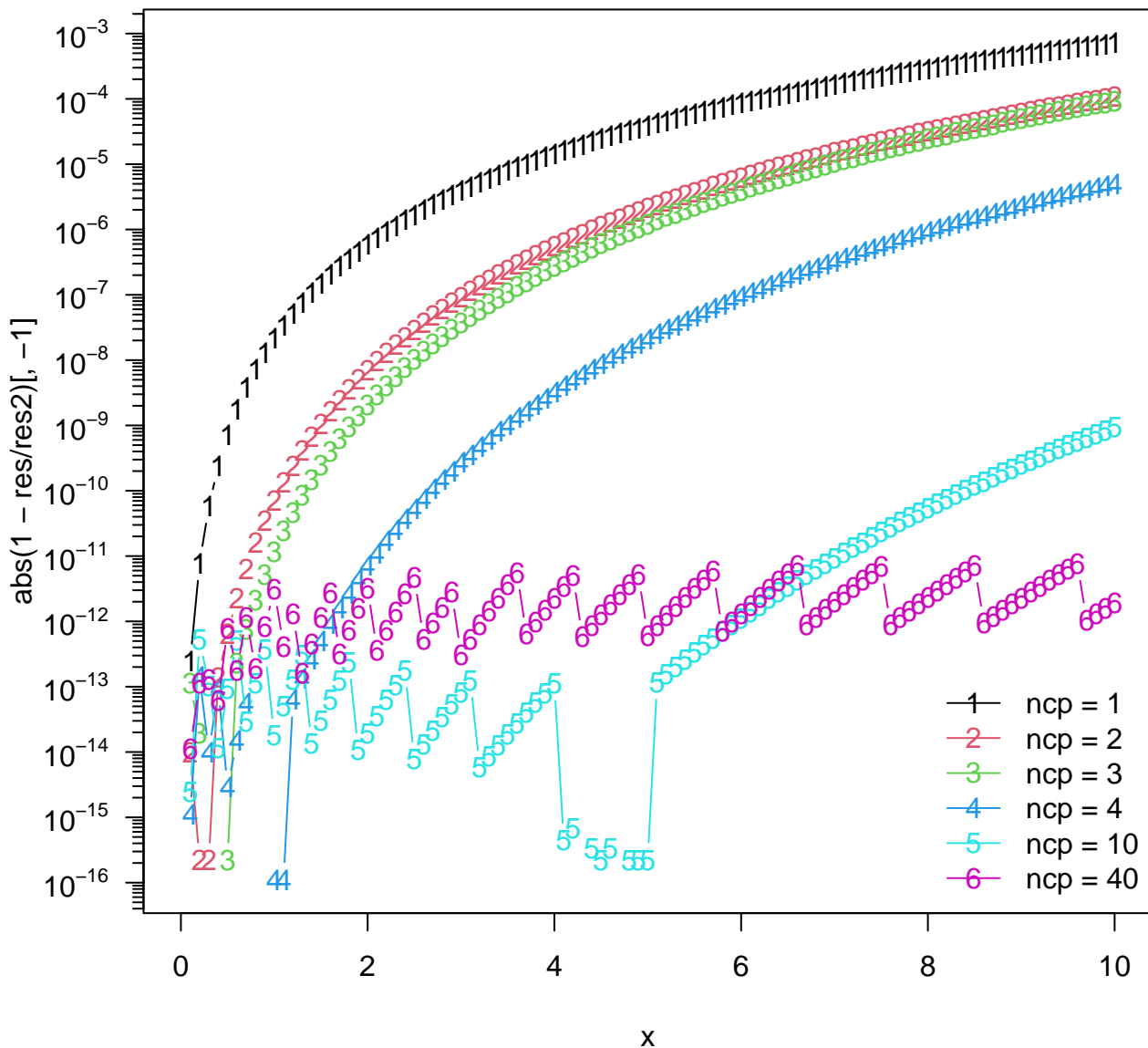




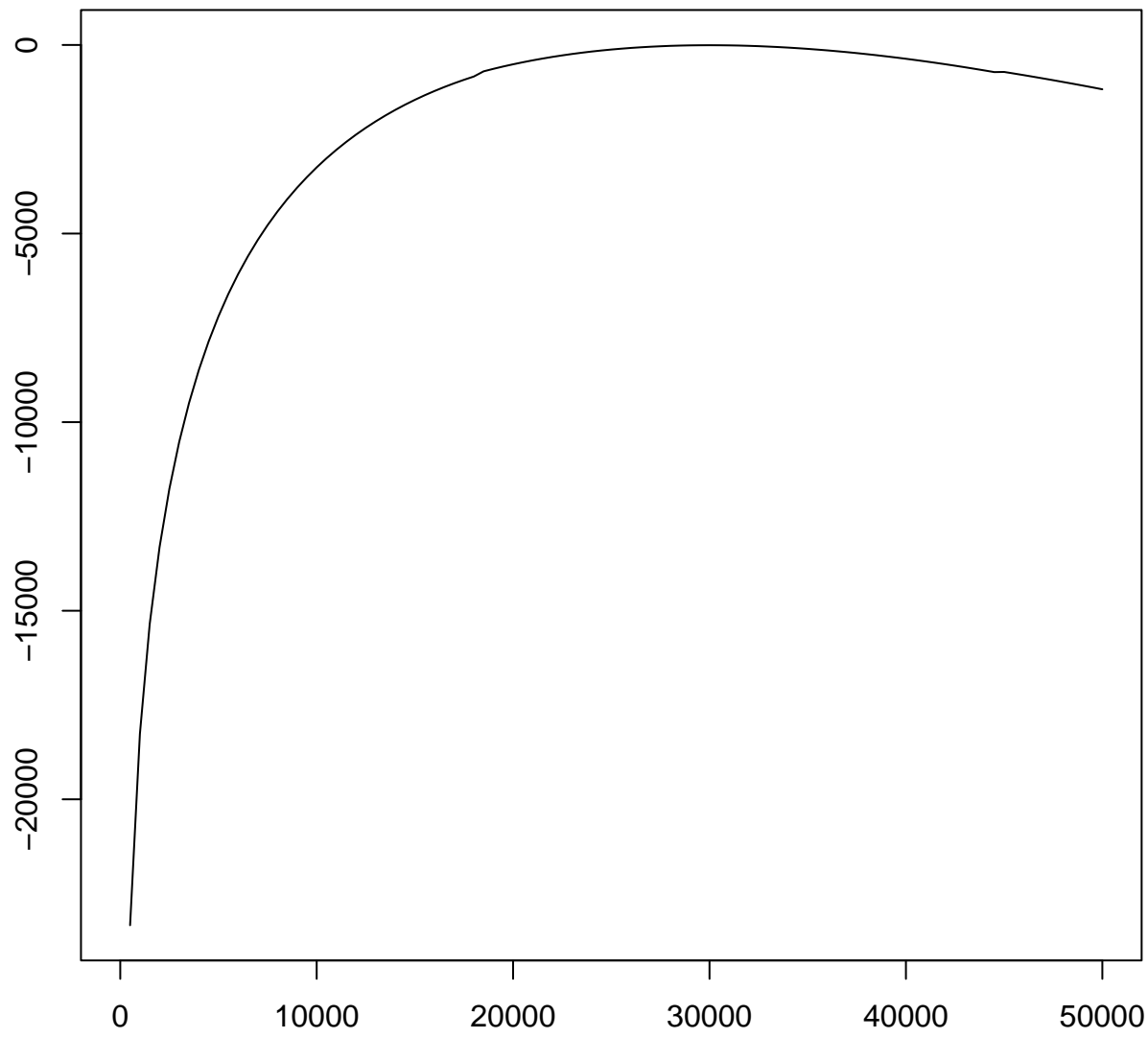
# `dnoncentchisq(*, df=3, ncp = ..) & dchisq(..)`



# Rel.Err $|1 - \text{dnoncentchisq}(*, \text{df}=3, \text{ncp} = ..) / \text{dchisq}(..)|$

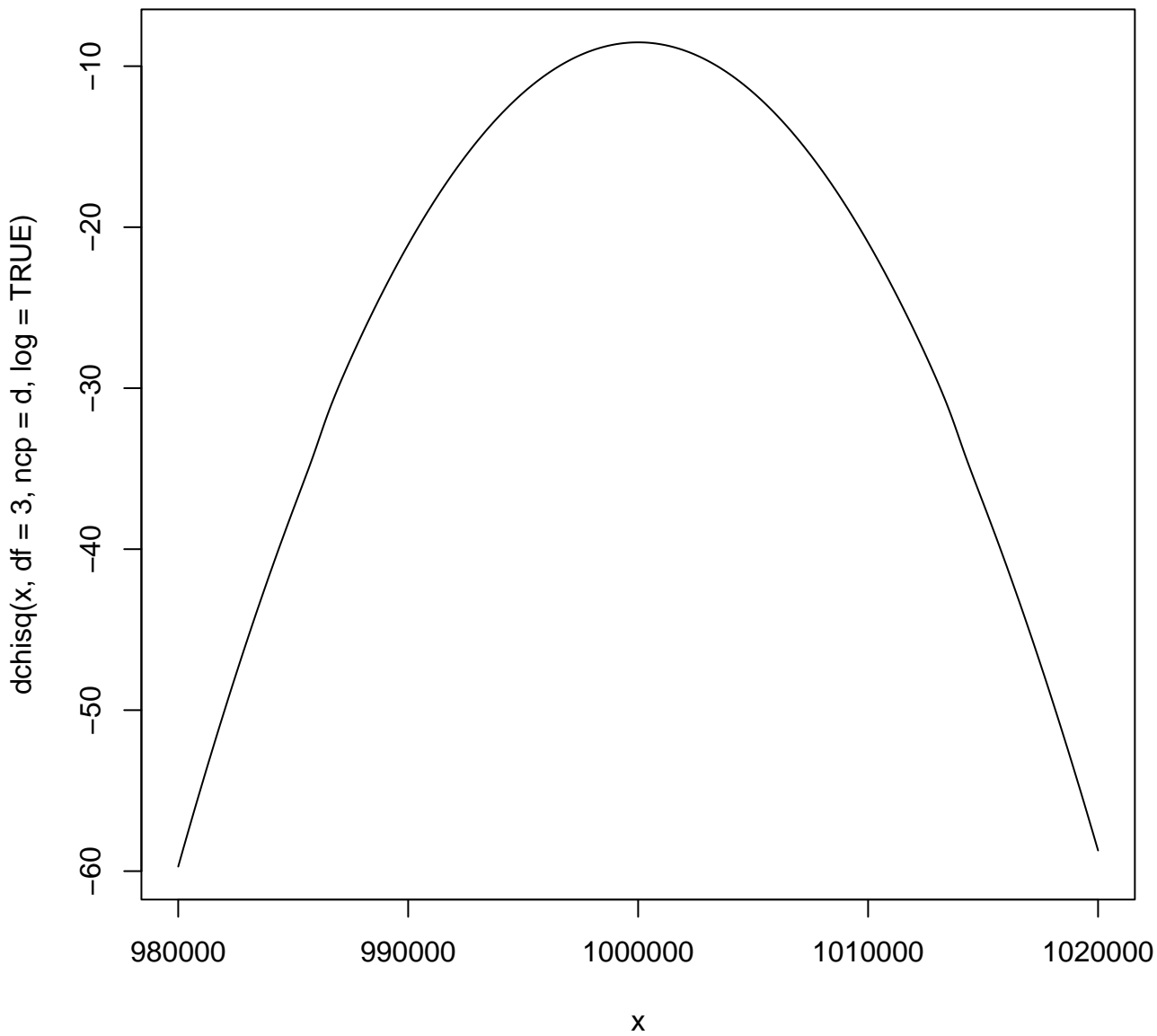


dchisq(x, df = 3, ncp = 30000, log = TRUE)

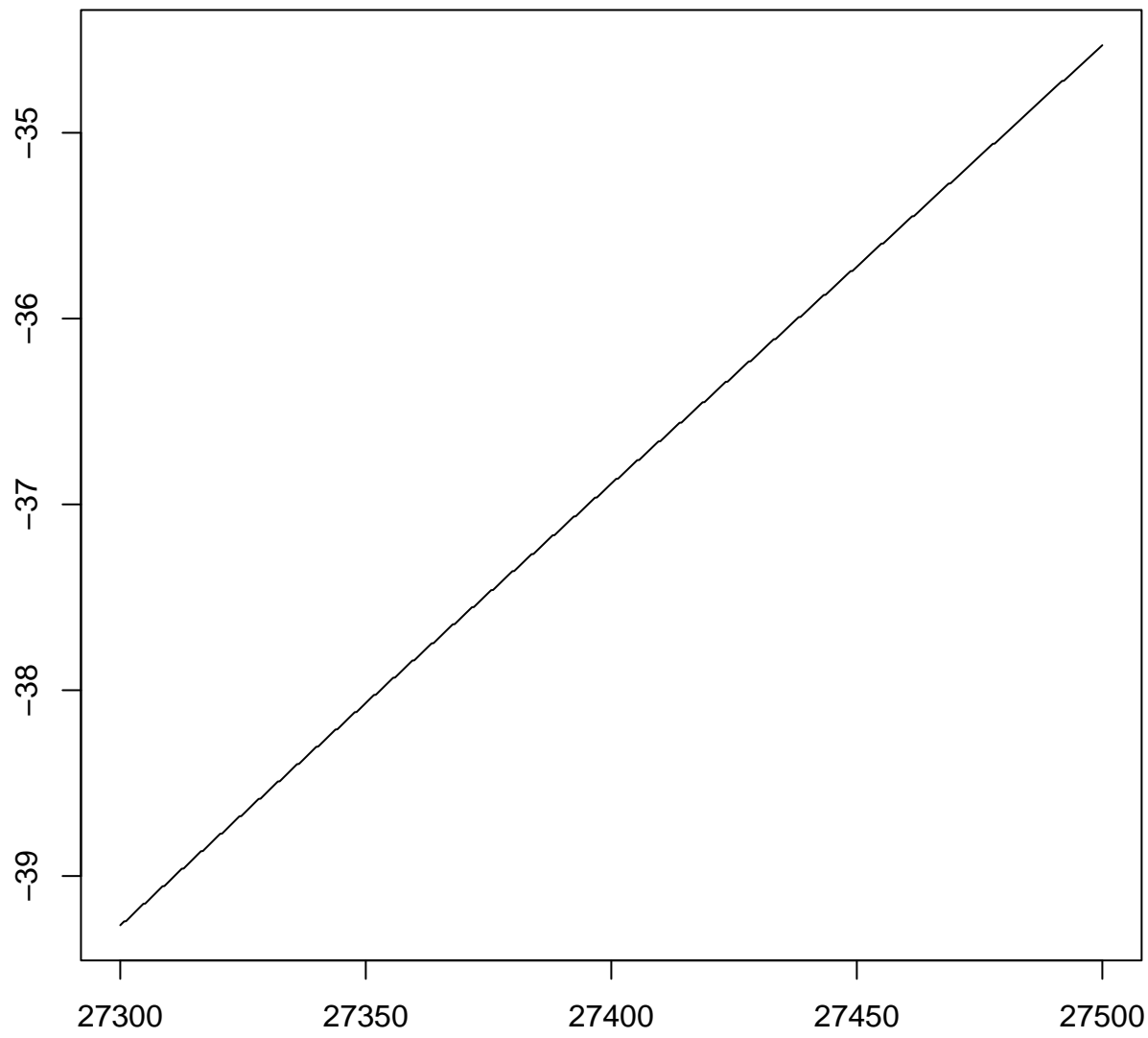


x



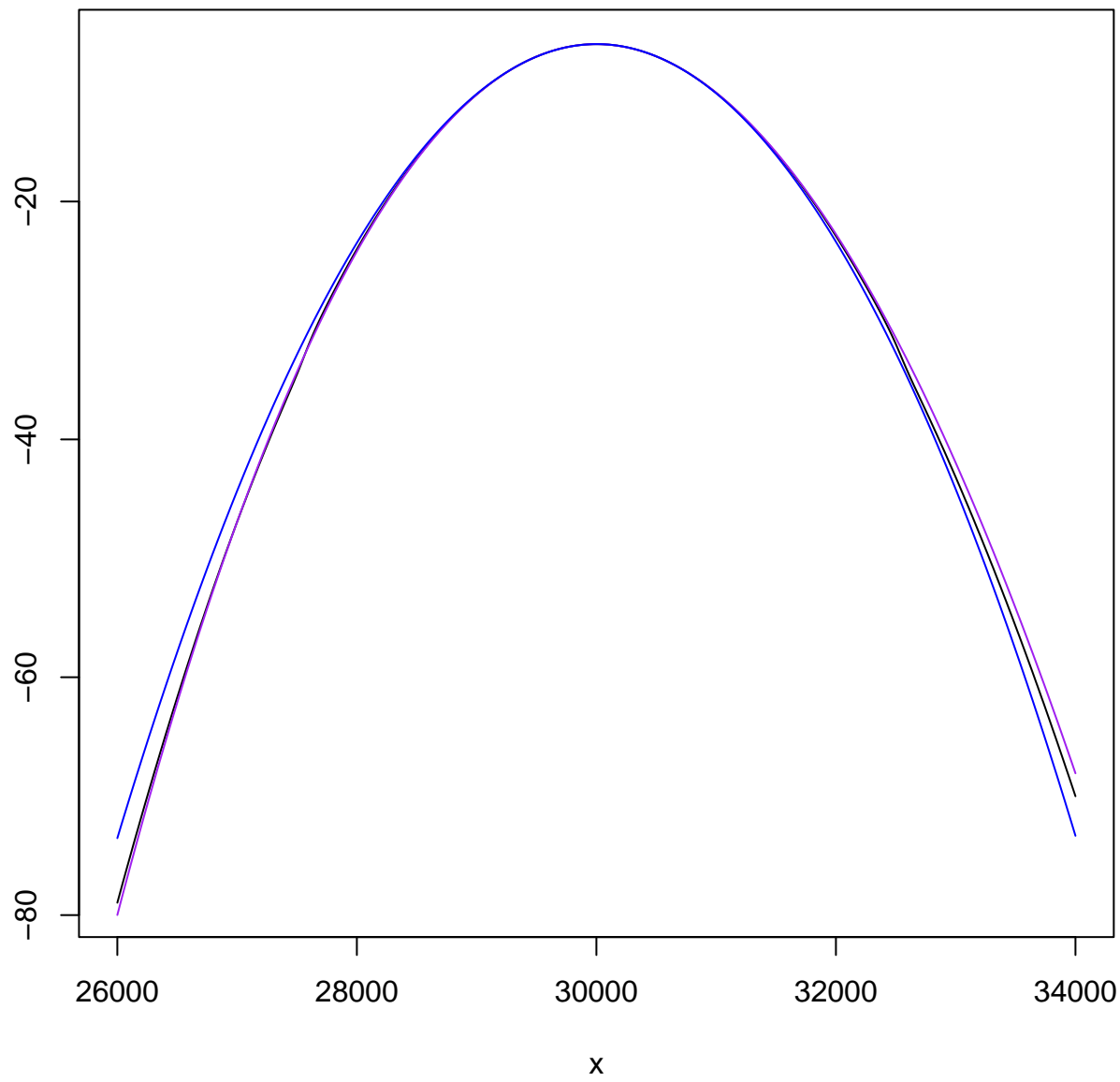


dchisq(x, df = 3, ncp = 30000, log = TRUE)

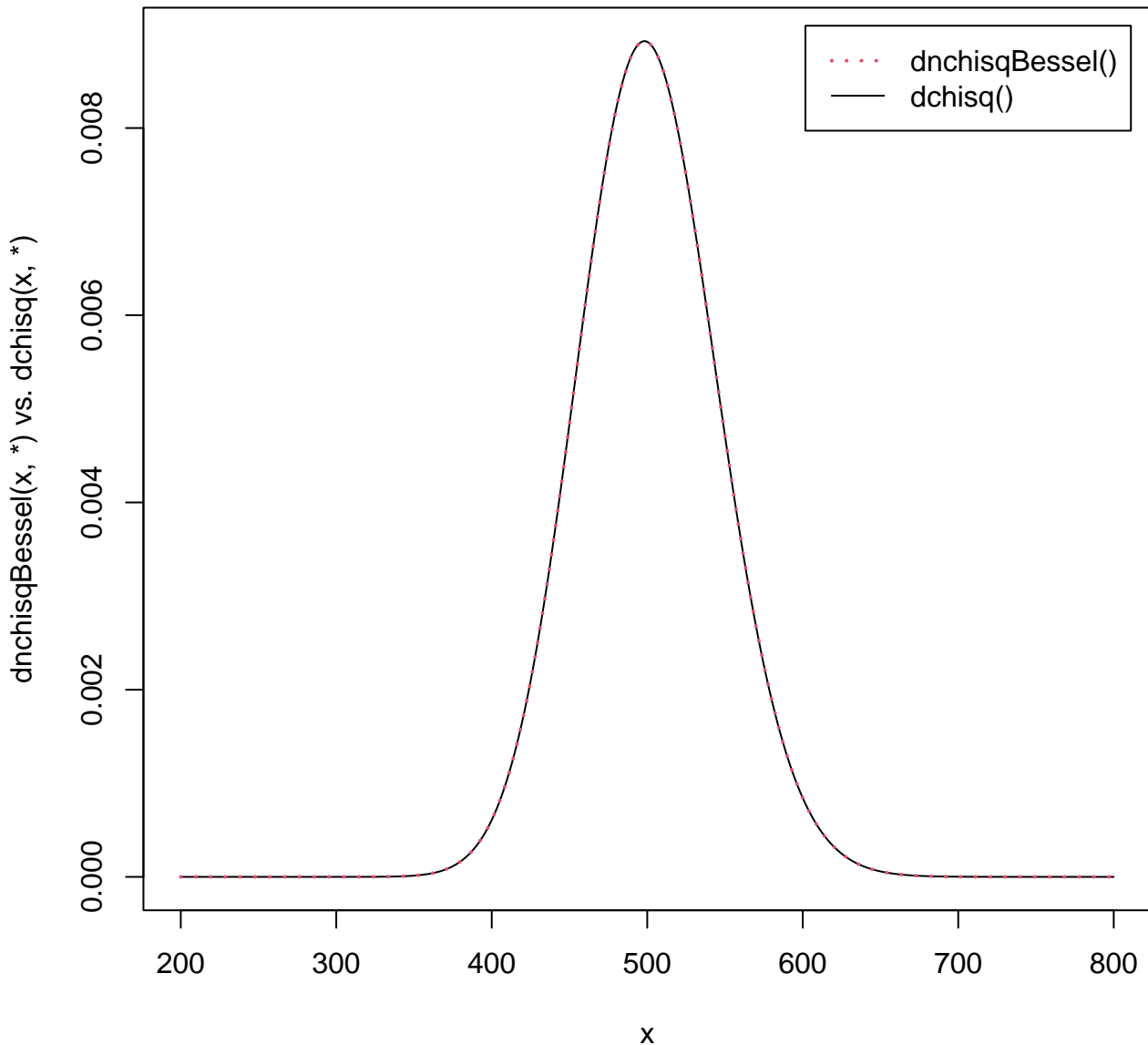


x

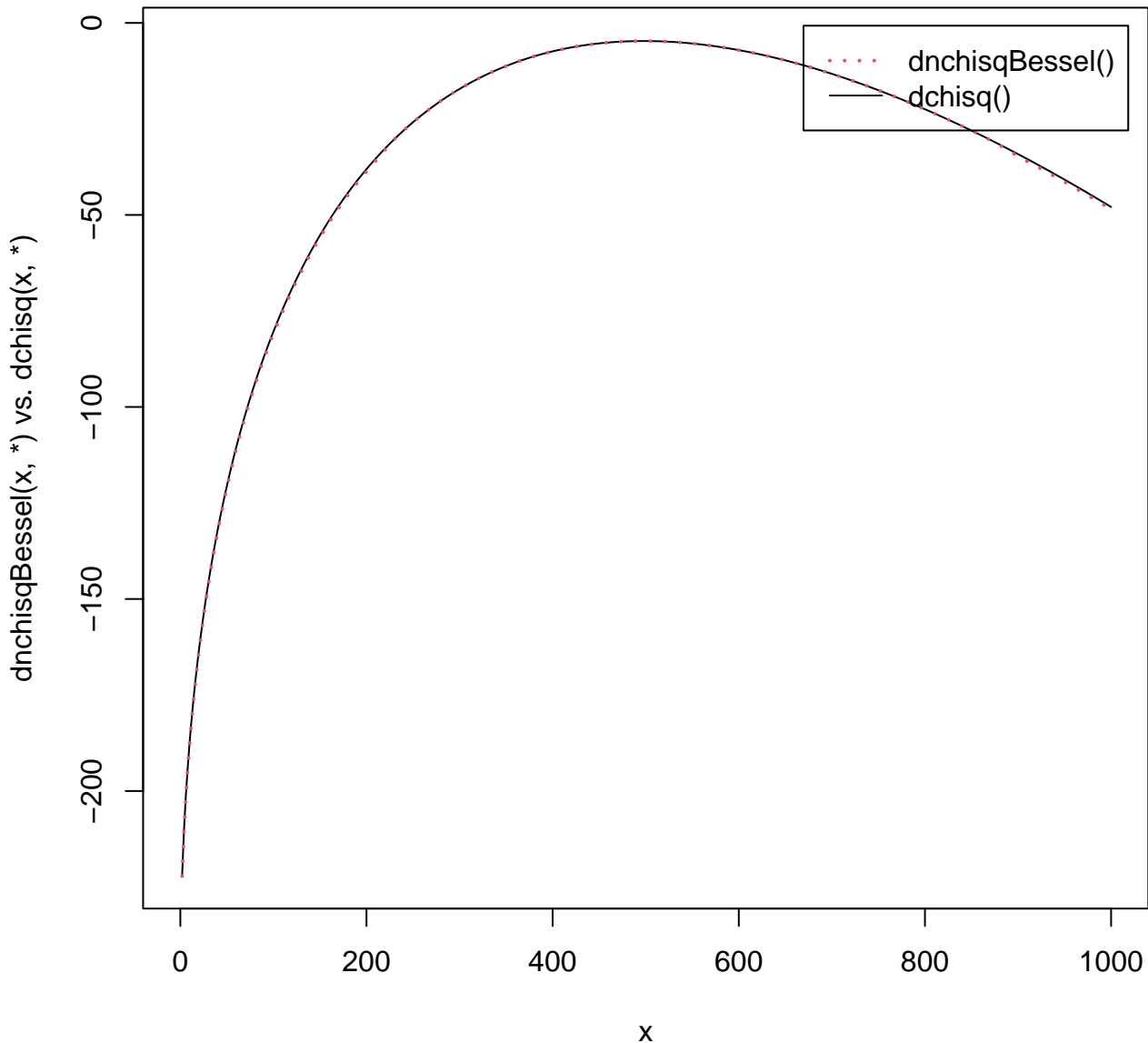
dchisq(x, df = 3, ncp = 30000, log = TRUE)



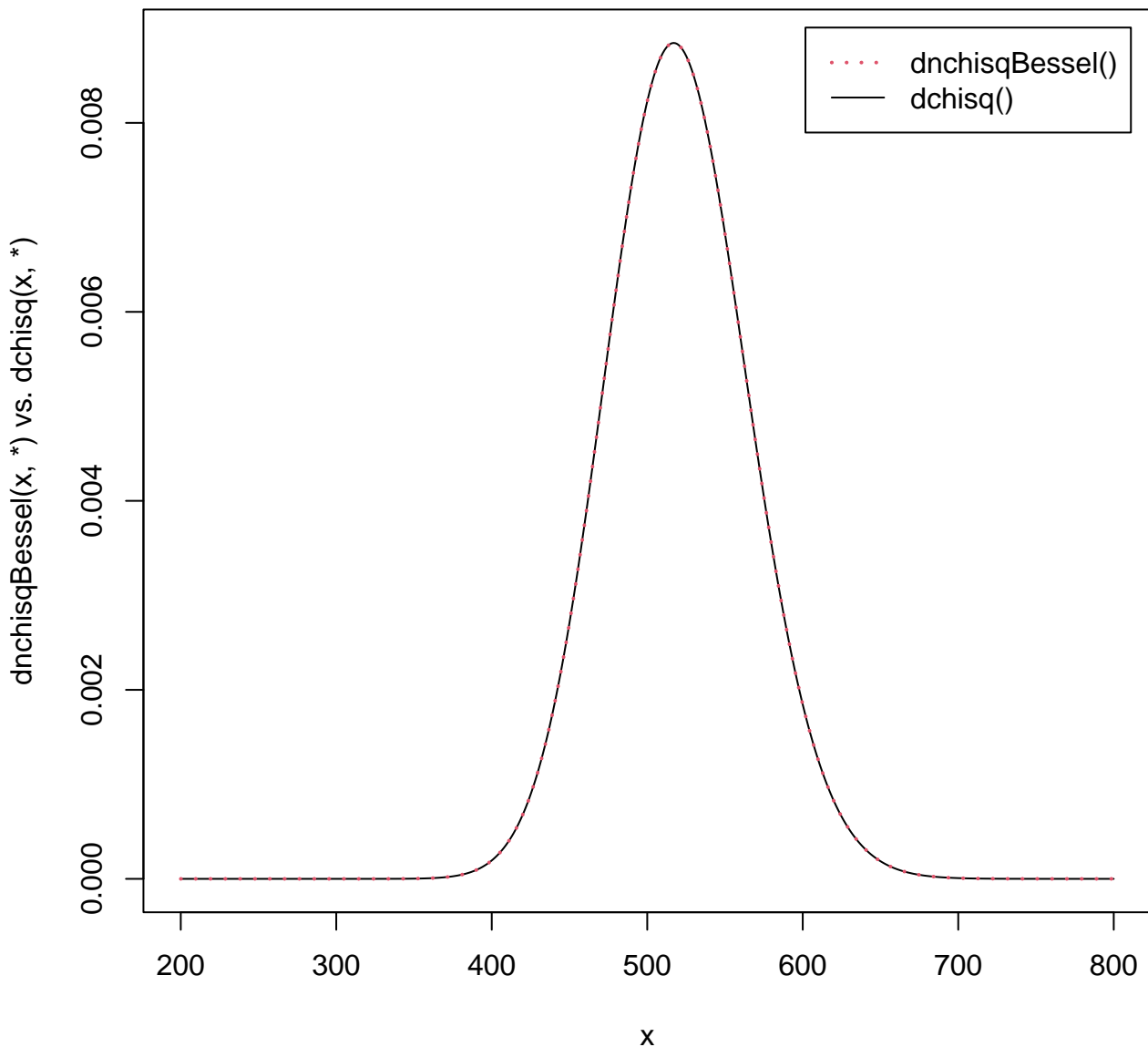
`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`



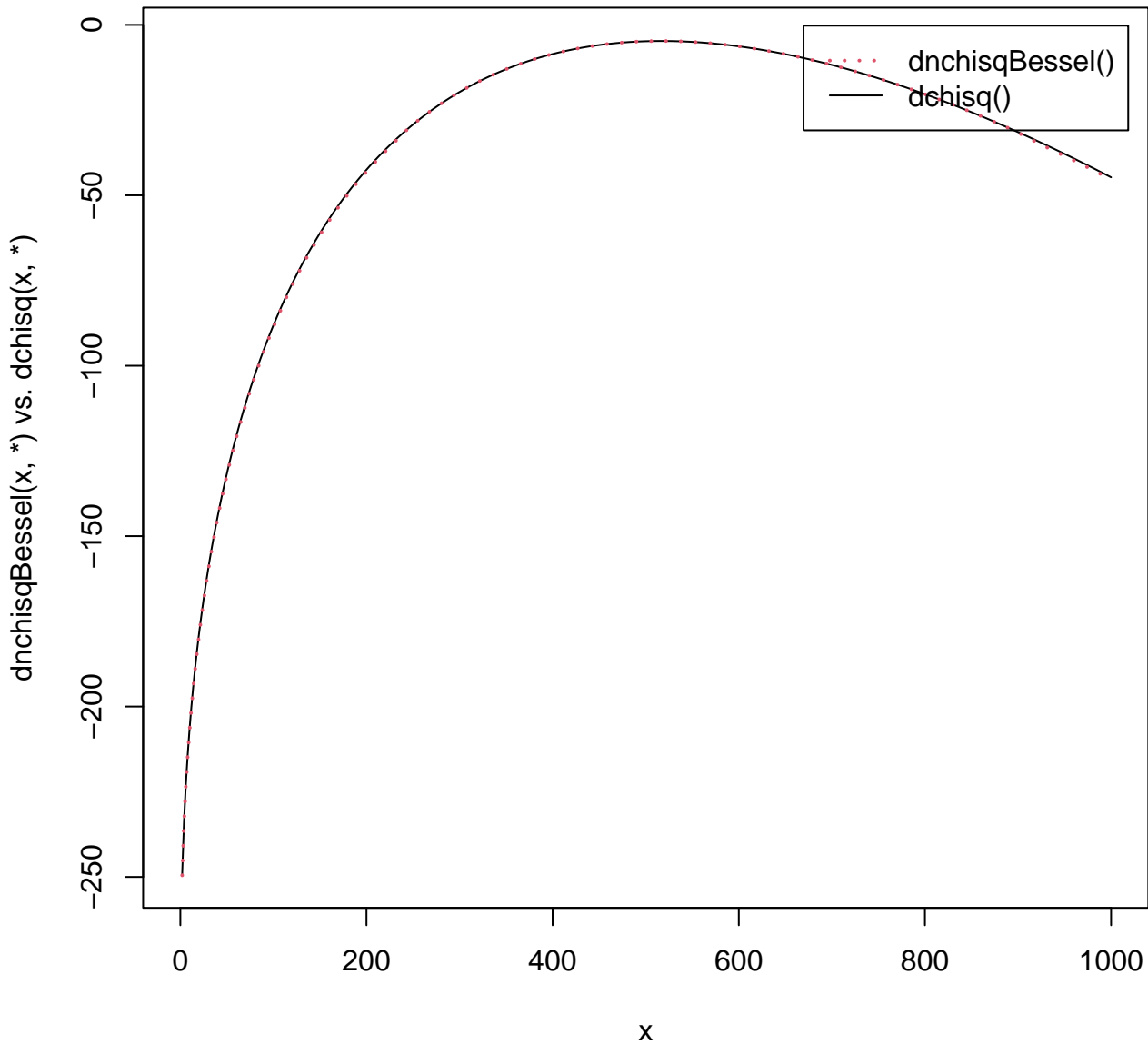
`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`



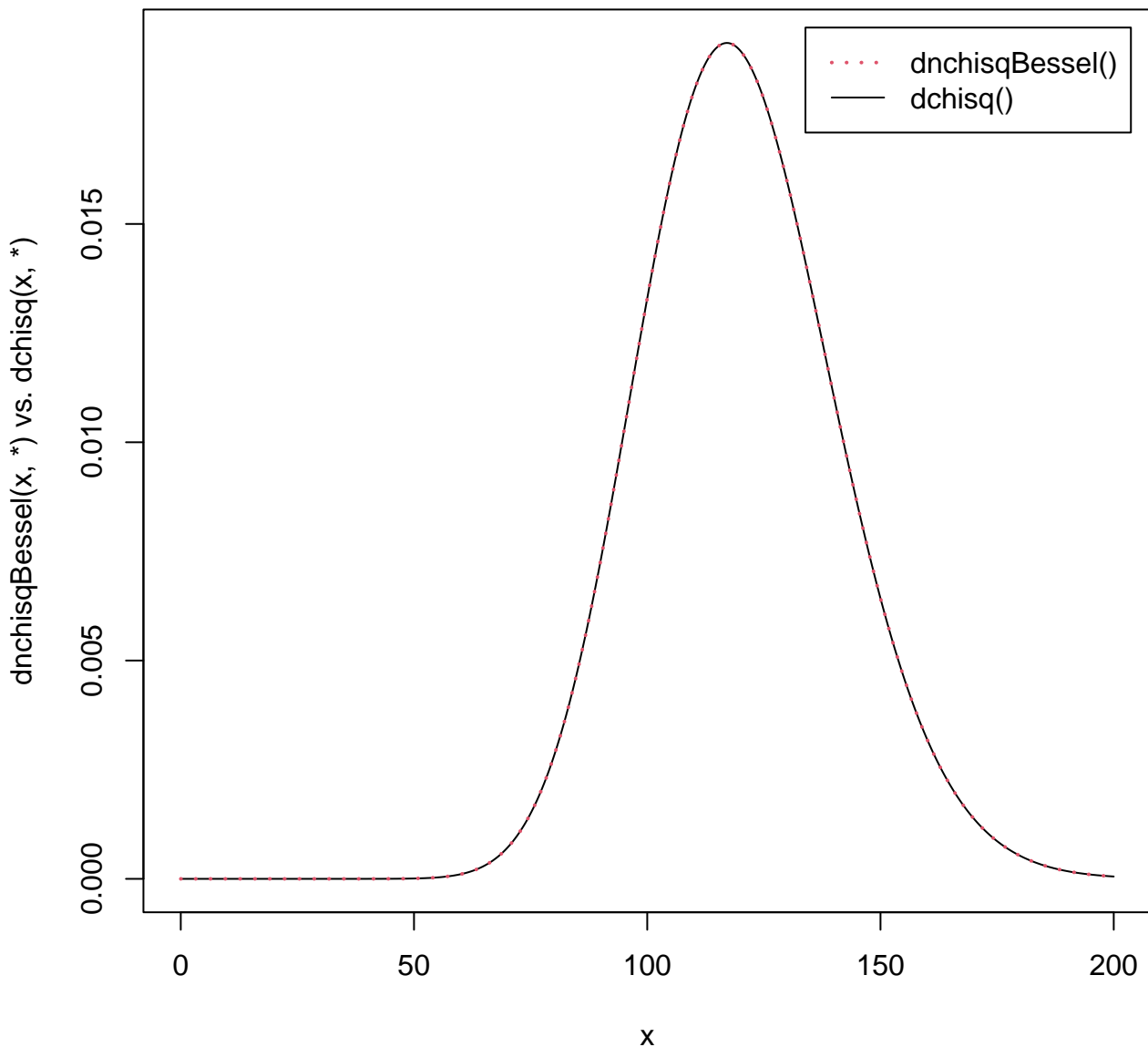
`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`



`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`

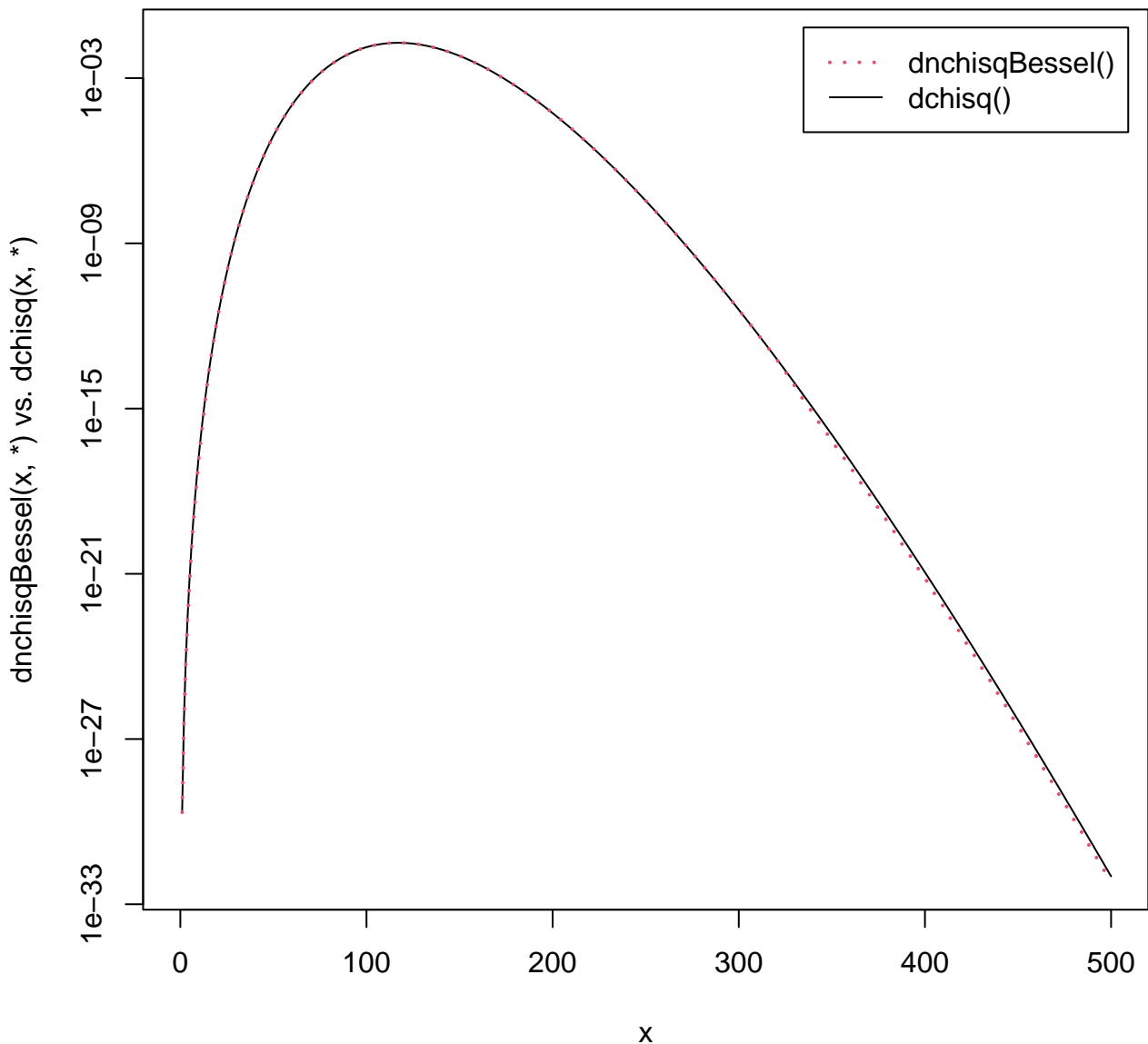


`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`

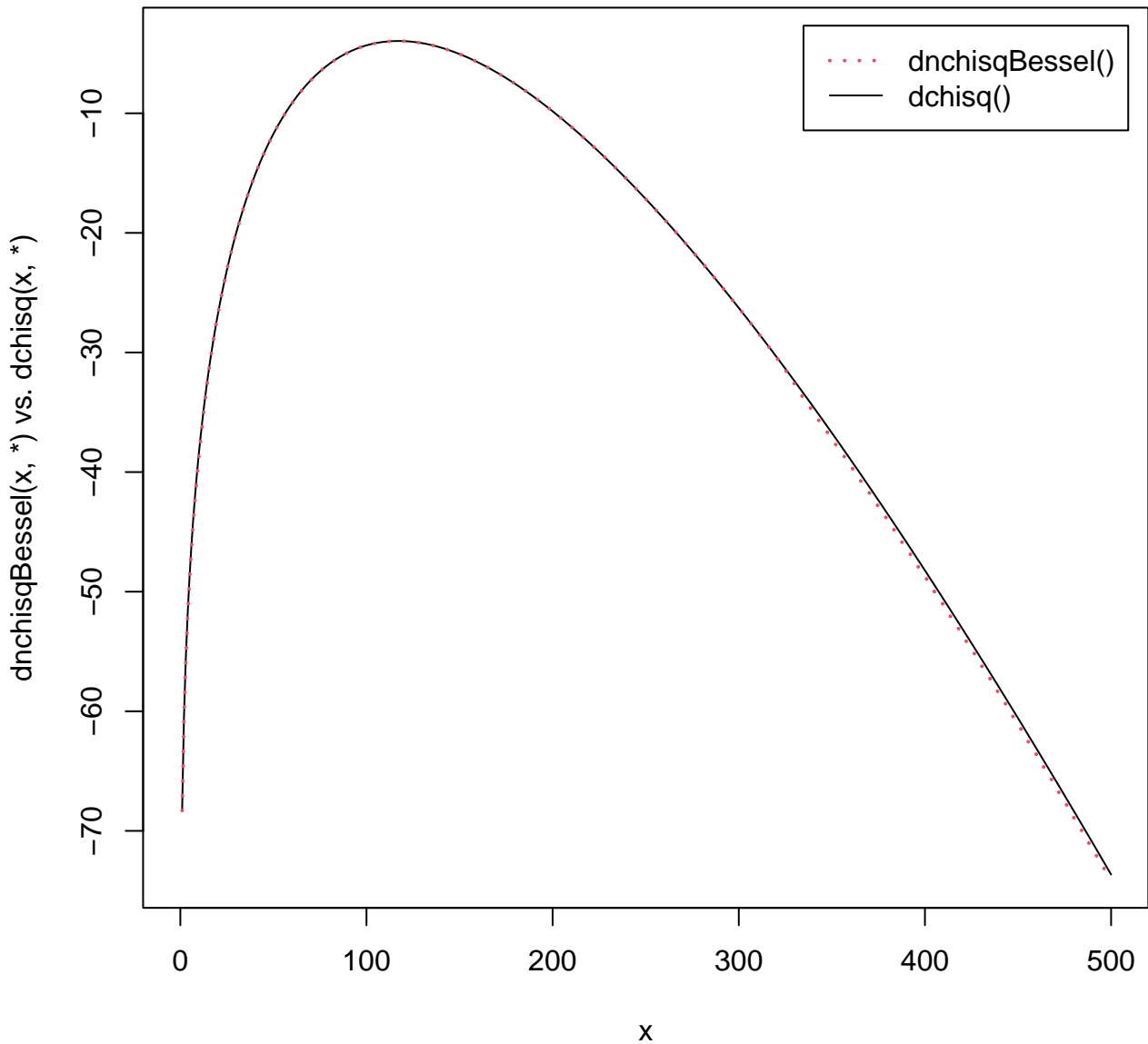




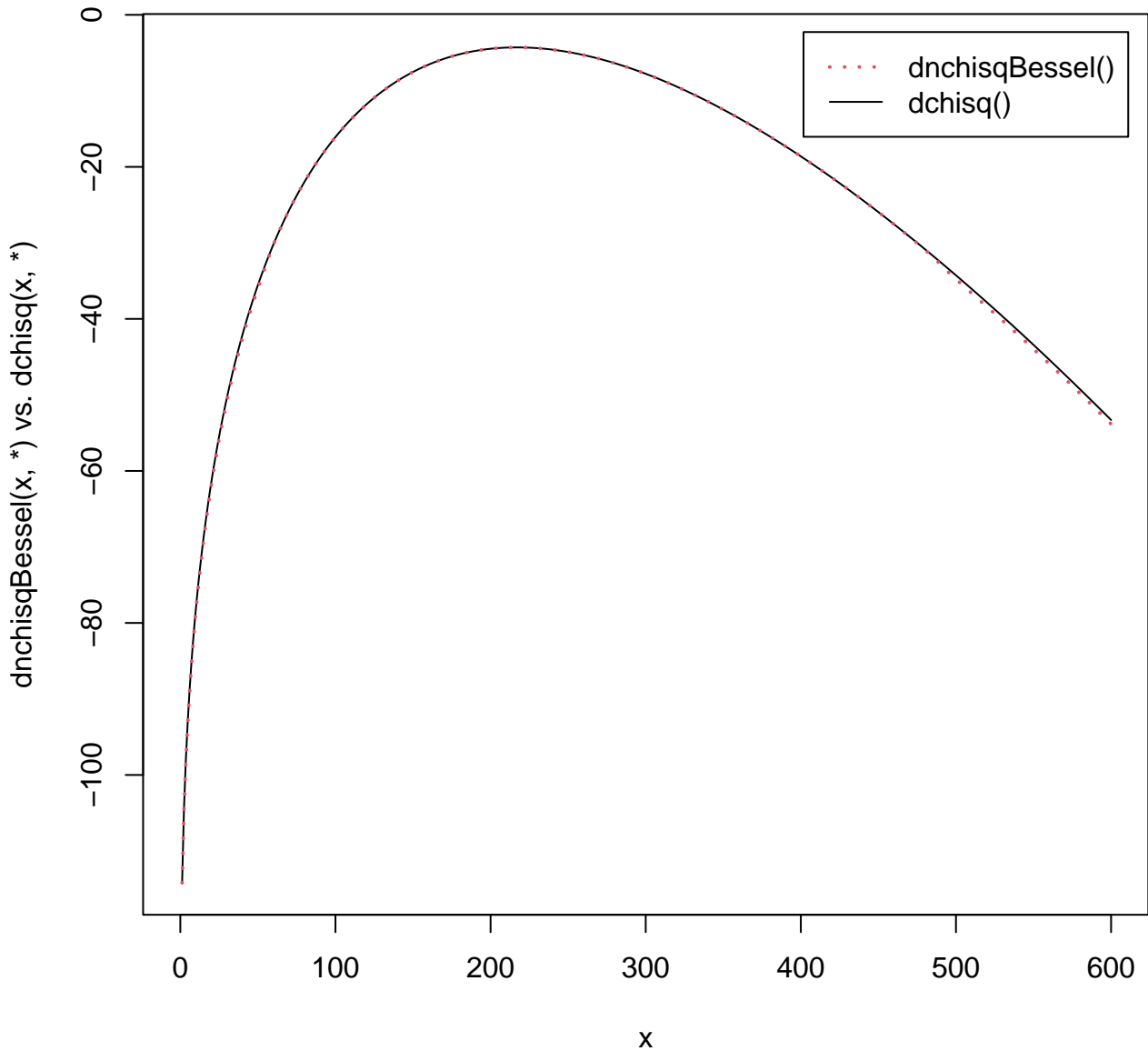
`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`



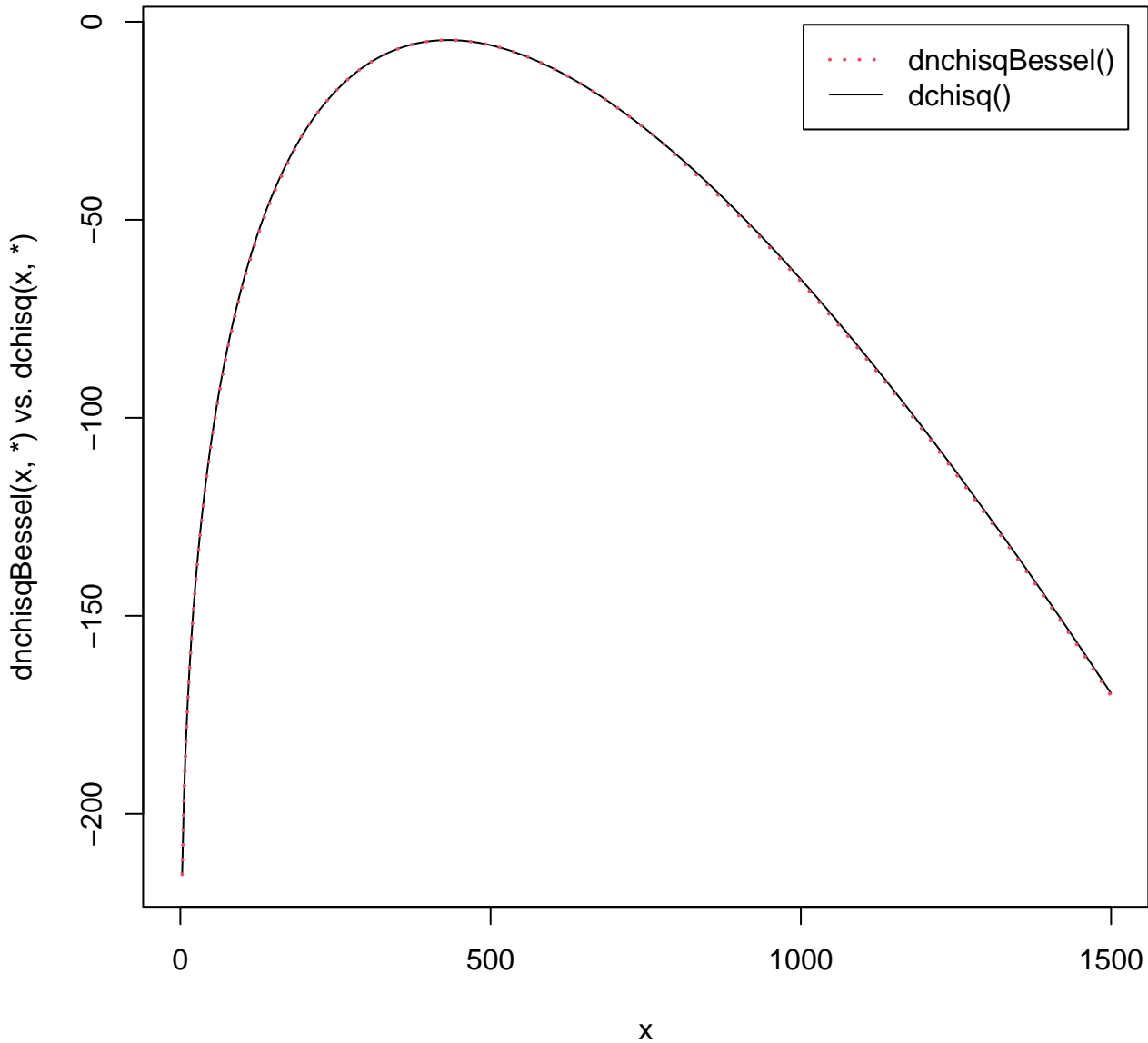
`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`



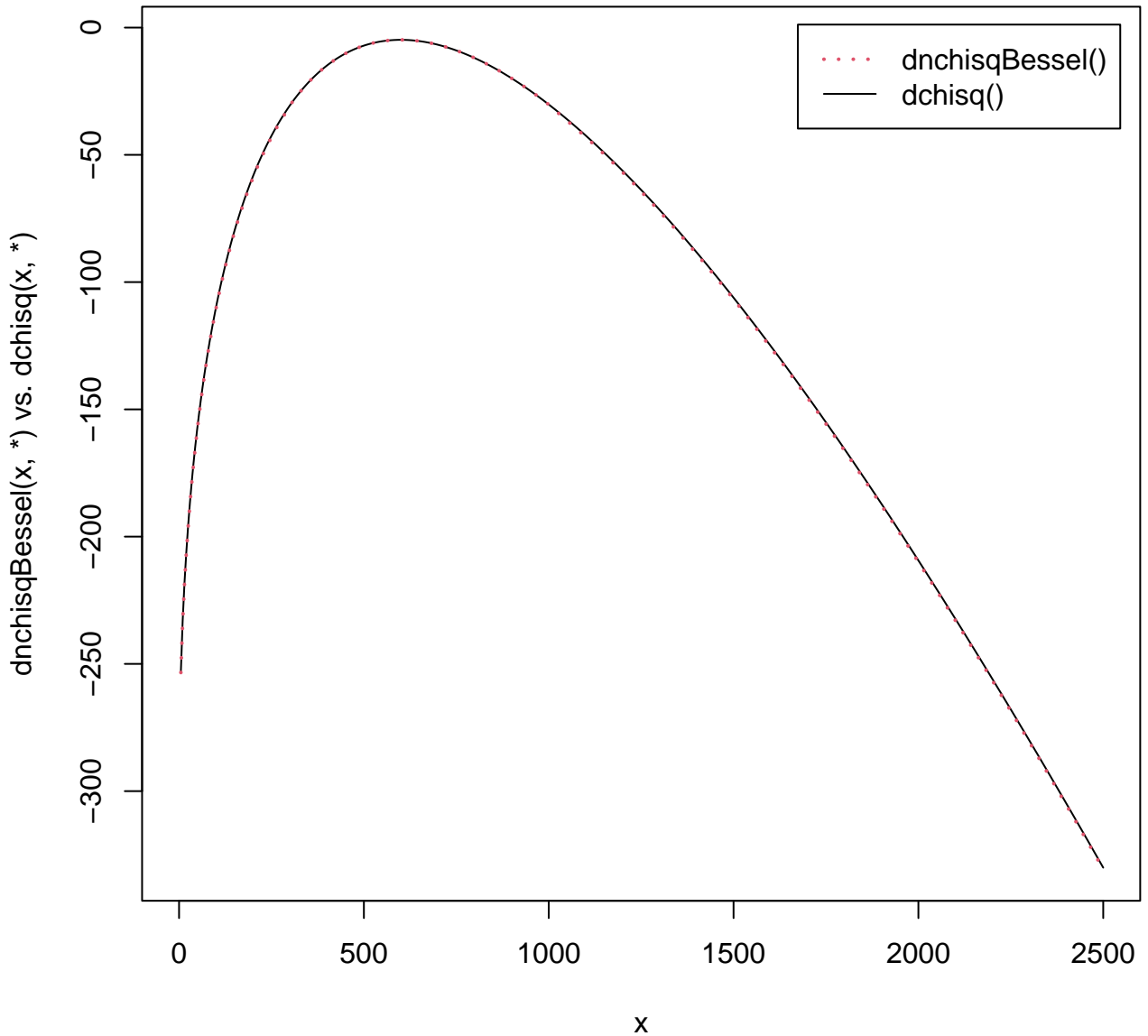
`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`



`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`



`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`



`pl2curves(dnchisqBessel, dchisq, df = df, ncp = ncp, log = log,  
from = from, to = to, p.log = p.log, n = n, ...)`

