hw2.R

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#theFunction(x)=1-exp(-x)  
par(mfrow = c(1,2))  
  
InverseOfTheFunction=function(x)# inverse funtion  
{  
 y=-log(1-x)  
 return(y)  
}  
  
DerivativeOfTheFunction=function(x)  
{  
 y=exp(-x)# derivative  
 return(y)  
}  
  
x1=runif(10000)# 0~1  
y1=InverseOfTheFunction(x1)  
hist(y1,breaks=50,col="steelblue")  
  
x2=seq(0.05,10,0.01)  
y2=DerivativeOfTheFunction(x2)  
plot(x2,y2,"l")

