R07849035 鄭凱元 hw1

R code:

#作業:若觀察到的t檢定統計量為 2.45 時 (雙尾檢定)，其p-value為何? 請畫出此t分布的pdf與cdf.

pt(2.45, 136, lower = F)\*2 # p-value

x <- seq(-3, 3, 0.01)

plot(x, dt(x, 136), main = "pdf of t-distrbution with df = 136") # pdf

plot(x, pt(x, 136), main = "cdf of t-distrbution with df = 136") # cdf

Output:



Figure:



