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| > # loading the library  > library(faraway)  >  > # reading the csv file  > hw5\_ans <- read.csv(file="C:/Users/buchh/OneDrive/Desktop/regression/hw4/HW04\_data.csv", header = TRUE)  >  > # regression  > lmod\_hw5 <- lm(y ~ x1+x2+x3+x4+x5+x6+x7+x8+x9,data=hw5\_ans)  >  > # part a)  > vif(lmod\_hw5)  x1 x2 x3 x4 x5 x6 x7 x8 x9  4.827645 1.420161 2.126597 1.566107 1.924035 1.275979 5.414572 4.535643 1.423390  >  > # part b)  > pdf(file="C:/Users/buchh/OneDrive/Desktop/regression/hw5/HW5\_b.pdf")  > qqnorm(residuals(lmod\_hw5),ylab="Residuals")  > qqline(residuals(lmod\_hw5))  > dev.off()  null device  1  >  > # part c)  > pdf(file="C:/Users/buchh/OneDrive/Desktop/regression/hw5/HW5\_c.pdf")  > plot(fitted(lmod\_hw5),residuals(lmod\_hw5),xlab="Fitted",ylab="Residuals")  > abline(h=0)  > dev.off()  null device  1 |
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