Exercise1.4

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{r setup, include=FALSE} knitr::opts\_chunk$set(echo = TRUE)

## Exercise 1.4

Both QQ Plots show that Salary and Expenditure are positively correlated with Total SAT scores

```{r cars} #1.4 data(sat, package=“faraway”)

qqplot(sattotal) qqplot(sattotal)

```

When combining expenditure with Salary with Expendity, Salary seems to be more correlated based on the lower tvalue.

```{r } lm1<-lm(satexpend+sat$salary) summary(lm1)

```

GGPLOT shows a combination of salary and expenditure is also strongly correlated with total SAT scores.

ggplot(data= sat) +  
 geom\_point(mapping = aes(x = lm1$residuals, y = total, size= total), stat = "identity", position = "identity")+  
 theme(axis.text.x=element\_text(size=9))