

#PART ONE

#1

$\frac{1}{3} + \frac{1}{4}$

#2

$2^{10} + 1$

#3

$1127 * \log(1 + 440/700)$

#4

$((-4 + \sqrt{(4^2) - (4 * 2 * -4)}) / (2 * 2))$

#PART TWO

df1 <- read.csv('labov.csv', header = T)

xtabs(~word+emphasis+r, data=df1)

employees use the emphatic r in the word fourth 35 times

total <- 92+12

12/total

The percentage of employees at S.Klein use r in word 'floor': 11.53846 %

#PART THREE

Vot <- read.table(file='VOT.tsv', sep='\t', header = T)

summary(Vot)

1st Quartile : -17.98

2nd Quartile : 13.82

3rd Quartile : 27.36

4th Quartile : 82.86

span <- Vot[Vot\$language == 'spanish',]

summary(span)

The mean of Spanish speaker's VOT is -24.31

eng <- Vot[Vot\$language == 'english',]

sd(eng\$vot)

#The sample standard deviation of English speakers' VOT is 19.86479