HOMEWORK 1

1.

```
sum(1/3, 1/4)
```

```
## [1] 0.5833333
```

```
2^10+1
```

```
## [1] 1025
```

```
f<-440
1127*log(1+f/700)
```

```
## [1] 549.6415
```

```
a<-2
b<-4
c<--4
(-b+sqrt(b^2-4*a*c))/(2*a)
```

```
## [1] 0.7320508
```

2.

```
datany <-
read.csv(url("http://wellformedness.com/courses/LING82100/Data/NYC.csv"))
xtabs( ~ word + emphasis + r, data=datany, exclude = c("flooR", "normal",
"0"))
```

```
## , , r = 1
##
##          emphasis
## word      emphatic
##   fouRth        35
```

```
klein <- xtabs( ~ store + word + r, data=datany, exclude = c("Macy's",
"Saks", "fouRth"))
floor <- xtabs( ~ store + word + r, data=datany, subset=r!="0", exclude =
c("Macy's", "Saks", "fouRth"))
100*floor/sum(klein)
```

```
## , , r = 1
##
##          word
## store        flooR
##   Klein's 11.53846
```

3.

```
datavot <-
read.table(url("http://wellformedness.com/courses/LING82100/Data/VOT.tsv"),
header = TRUE)
quantile(datavot$vot)
```

```
##      0%     25%     50%     75%    100%
## -85.290 -17.975  13.825  27.365  82.860
```

```
mean(datavot[datavot$language == "spanish",]$vot)
```

```
## [1] -24.31306
```

```
sd(datavot[datavot$language == "english",]$vot)
```

```
## [1] 19.86479
```