STA 210: HW 2

Your Name

Date

Question 1: Ex. #5.14

```
avg <- c(14.62,34.12,33.61,29.1,27,26.97,26.8)
sd <- c(5.039,11.942,6.582,4.593,3.818,9.010,5.969)
n <- c(9,5,6,9,2,6,9)
judges <- bind_cols(avg=avg,sd=sd,n=n)</pre>
```

 \mathbf{a}

b

Question 2: Ex. #5.17

```
#values provided by book
dfw <- 24 #DF within
dft <- 31 #DF total
ssw <- 35088 #Sum of squares within
sst <- 70907 #Sum of squares total
#fill in equations to calculate remaning values
dfb <- #DF between
ssb <- #Sum of squares between
msb <- #Mean square between
msw <- #Mean square within
f stat <- #F -statistic
p_val <- # p-value</pre>
# create each column of the ANOVA table
#Each column must have same number of rows,
#Use NA to hold a space for the blank parts of the ANOVA table
source <- c("Between Groups", "Within Groups", "Total")</pre>
df <- c(dfb, dfw,dft)</pre>
ss <- c(ssb, ssw, sst)
ms <- c(msb, msw, NA)
f.statistic <- c(f_stat, NA, NA)</pre>
p.value \leftarrow c(p val, NA, NA)
```

Question 3: Ex. #5.23