WU #3 - Sums of Squares

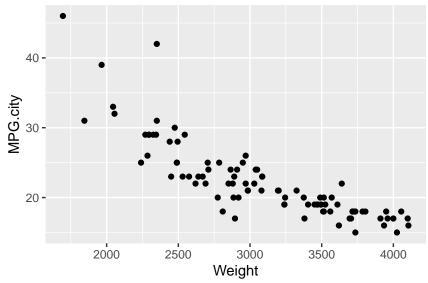
Math 158 - Jo Hardin

in class: Thursday 1/27/2022, due: Friday 1/28/2022

Name:		
Names of people you worked with:		

Consider the following ANOVA table. The data are based on a random sample of cars from among 1993 passenger car models that were listed in both *Consumer Reports* and the *PACE Buying Guide*. We are considering the variables weight and MPG.city.

```
Cars93 %>%
  ggplot(aes(y=MPG.city, x= Weight)) +
  geom_point()
```



```
Cars93 %>%
  lm(MPG.city ~ Weight, data = .) %>%
  anova() %>%
  tidy()
```

```
## # A tibble: 2 x 6
     term
                  df sumsq meansq statistic
                                                p.value
                                                   <dbl>
     <chr>
                              <dbl>
               <int> <dbl>
                                        <dbl>
## 1 Weight
                   1 2066. 2066.
                                         224.
                                               2.97e-26
## 2 Residuals
                  91 840.
                               9.23
                                          NA NA
```

- 1. Find R^2 .
- 2. Interpret \mathbb{R}^2 .