Homework 1

Enter your name and EID here

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This homework is due on Jan. 24, 2022 at 11:00am. Please submit as a pdf file on Canvas.

Problem 1: (4 pts) Demonstrate basic command of Markdown by creating a bulleted list with three items, a numbered list with three items, and a sentence that has one word in bold and one word in italics.

Bulleted List

- Robert De Niro
- Jean Reno
- Stellan Skarsgaard

Numbered List

- 1. Robert De Niro
- 2. Jean Reno
- 3. Stellan Skarsgaard

Sean Bean is usually typecast as the character who dies.

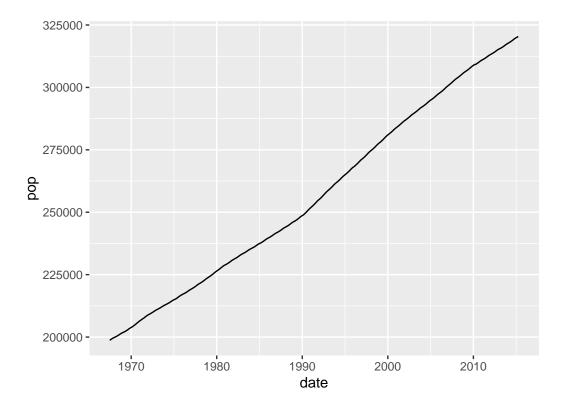
Problem 2: (3 pts) The economics dataset contains various time series data from the US economy:

head(economics)

```
## # A tibble: 6 x 6
                         pop psavert uempmed unemploy
##
     date
                  рсе
##
     <date>
                <dbl>
                       <dbl>
                                <dbl>
                                        <dbl>
                                                  <dbl>
## 1 1967-07-01 507. 198712
                                 12.6
                                          4.5
                                                   2944
## 2 1967-08-01 510. 198911
                                 12.6
                                                   2945
                                          4.7
## 3 1967-09-01
                 516. 199113
                                 11.9
                                          4.6
                                                   2958
## 4 1967-10-01 512. 199311
                                 12.9
                                                   3143
                                          4.9
## 5 1967-11-01
                 517. 199498
                                 12.8
                                          4.7
                                                   3066
## 6 1967-12-01 525. 199657
                                 11.8
                                          4.8
                                                   3018
```

Use ggplot to make a line plot of the total population (pop, in thousands) versus time (column date).

```
ggplot(economics, aes(date, pop)) +
  geom_line()
```



Problem 3: (3 pts) Again using the economics dataset, now make a scatter plot (using geom_point()) of the number of unemployed versus the total population (pop), and color points by date.

```
ggplot(economics, aes(pop, unemploy, color = date)) +
  geom_point()
```

