Base R EDA and `ggplot2` popquiz **Name:** **Points:**

1. Plot f(x) = 5x-3 for x in [0,10].

2. Plot $f(x) = (1-x)^2$ for x in [0,10].

3. In base R, plot the measurements before and after insulation in the `whiteside` data set (distinguished by the values of `Insul = "Before"` and `Insul = "After"`).

4. Make a pair plot of the variables of the built-in `iris` dataset.

5. The built-in data set `AirPassengers` is a time series. It contains the monthly totals of international airline passengers from 1949 to 1960. In base R, make a line plot of the time series data, and title it "Monthly number of int. air passengers 1949-1960".

6. In base R, make a histogram of the `AirPassengers` time series, and change the default y-axis label to "Count of Int. air passengers".

7. Plot the statistical `summary` values including the `mean` for the `AirPassengers` dataset.

8. Using `ggplot2`, make a histogram of the time series data set `AirPassengers` and label the y-axis "Count of int. air passengers")

9. Using `ggplot2`, plot f(x) = 5x-3 for x in [0,10].

10. Using `ggplot2`, plot $f(x) = (1-x)^2$ for x in [0,10].