homework2

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```
library(caret)
## Loading required package: lattice
## Loading required package: ggplot2
library(splines)
library(mgcv)
## Loading required package: nlme
## This is mgcv 1.8-33. For overview type 'help("mgcv-package")'.
library(pdp)
library(earth)
## Loading required package: Formula
## Loading required package: plotmo
## Loading required package: plotrix
## Loading required package: TeachingDemos
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.0 --
                    v dplyr 1.0.4
## v tibble 3.0.6
## v tidyr 1.1.2 v stringr 1.4.0
## v readr 1.4.0 v forcats 0.5.1
## v purrr
          0.3.4
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::collapse() masks nlme::collapse()
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## x purrr::lift() masks caret::lift()
## x purrr::partial() masks pdp::partial()
```

(a) Exploratory data analysis



