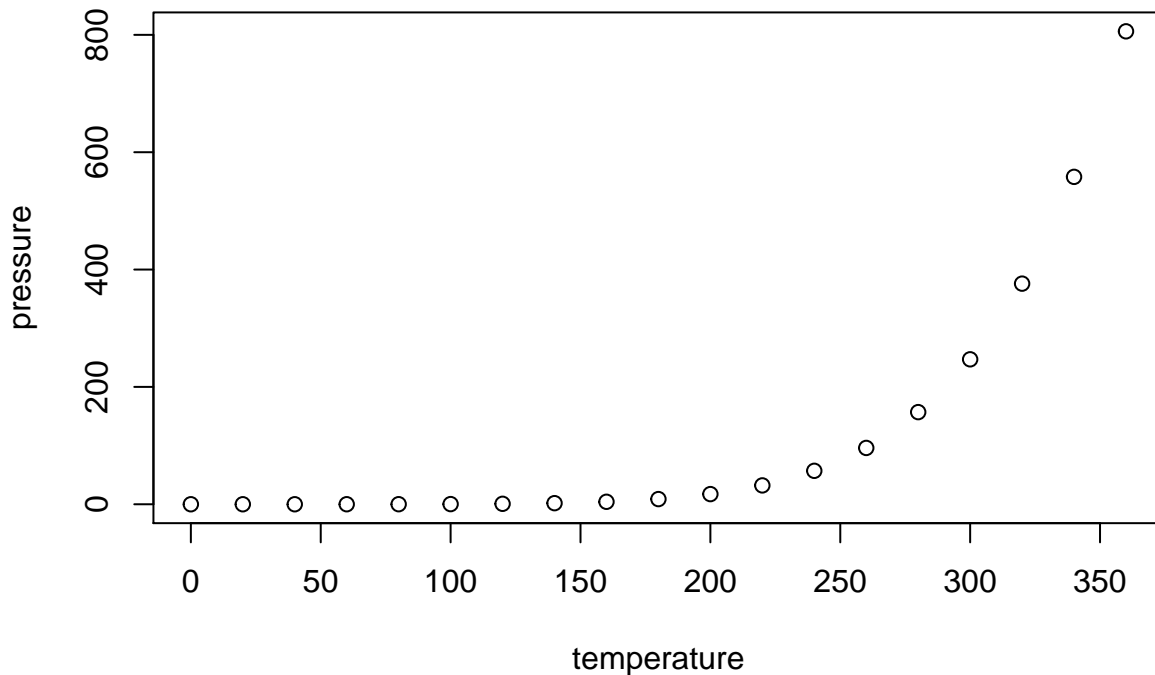# hw5_q2

a) SATMTMID vs MD_EARN_WNE_P10

s Look for outliers. Find these outliers in the data and look up their name (INSTNM). Can you explain the outliers?

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

b) median earnings and SAT math scores.

Suppose we want to model the relationship between median earnings and SAT math scores. Fit an ordinary linear model, plot the residuals, and look at diagnostics. Does the relationship seem to be linear? Are there any problems with the fit?

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.