Week9_Dataset2

```
file_name <- "C:\\CUNY\\cuny9.csv"

cuny9 <- read.table(file=file_name, header=TRUE, sep=",")

x2 <- cuny9[,"x2"]

y2 <- cuny9[,"y2"]

plot(y2~x2)

p = lm(y2 ~ x2 + I(x2^2) + I(x2^3))

summary(p)</pre>
```

```
##
## Call:
## lm(formula = y2 \sim x2 + I(x2^2) + I(x2^3))
##
## Residuals:
        Min
                 1Q
                      Median
                                     3Q
## -0.001329 -0.001189 -0.000629 0.000874 0.002378
## Coefficients:
              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -6.00e+00 1.37e-02 -436 < 2e-16 ***
             2.78e+00 5.24e-03
                                    530 < 2e-16 ***
## x2
            -1.27e-01 6.17e-04 -205 1.7e-14 ***
## I(x2^2)
## I(x2^3)
            -1.65e-17 2.27e-05 0
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.00179 on 7 degrees of freedom
## Multiple R-squared: 1, Adjusted R-squared:
## F-statistic: 4.3e+06 on 3 and 7 DF, p-value: <2e-16
```

```
curve(-5.996+2.781*x-0.1267*x^2-1.648e-17*x^3,add=T)
```

