## HW 1

## Trailblazers

## October 9, 2016

This is something like a notebook. You can work with data and text at the same time. Things chunks are for code

```
print("I am in a chunk.")
## [1] "I am in a chunk."
By default they echo the code and then produce the result.
You can turn off the echo and just see the result.
## [1] "No Echo"
View(RealPrices)
## Error in as.data.frame(x): object 'RealPrices' not found
summary(RealPrices)
## Error in summary(RealPrices): object 'RealPrices' not found
now plot Year and Real Price (test)
plot(RealPrices$Year)
## Error in plot(RealPrices$Year): object 'RealPrices' not found
now plot Year and short ton production
plot(RealPrices$Year, CoalMarket$ProductionKShortTon)
## Error in plot(RealPrices$Year, CoalMarket$ProductionKShortTon): object 'RealPrices' not found
more plots
plot(RealPrices$Year, RealPrices$RealPriceMBTU)
## Error in plot(RealPrices$Year, RealPrices$RealPriceMBTU): object 'RealPrices' not found
```

```
plot(RealPrices$Year, RealPrices$RealPriceMBTU)
## Error in plot(RealPrices$Year, RealPrices$RealPriceMBTU): object 'RealPrices' not found
plot(RealPrices$RealPriceMBTU, CoalMarket$ProductionKShortTon)
## Error in plot(RealPrices$RealPriceMBTU, CoalMarket$ProductionKShortTon): object 'RealPrices' not fou
Demand Curve
plot(CoalMarket$ProductionKShortTon, RealPrices$RealPriceMBTU)
## Error in plot(CoalMarket$ProductionKShortTon, RealPrices$RealPriceMBTU): object 'CoalMarket' not fou
now Multiple (linear) Regression
FirstRegression <- lm(CoalMarket$ProductionKShortTon ~ RealPrices$RealPriceMBTU)
## Error in eval(expr, envir, enclos): object 'CoalMarket' not found
summary(FirstRegression)
## Error in summary(FirstRegression): object 'FirstRegression' not found
plot(FirstRegression)
## Error in plot(FirstRegression): object 'FirstRegression' not found
now elasticities
ElastForm<- lm(log(RealPrices$Year) ~ log(RealPrices$RealPriceMBTU), data= RealPrices)</pre>
## Error in is.data.frame(data): object 'RealPrices' not found
summary(ElastForm)
## Error in summary(ElastForm): object 'ElastForm' not found
plot(ElastForm)
## Error in plot(ElastForm): object 'ElastForm' not found
```

## Percent Form

```
PercentForm <- lm(Year ~ log(RealPriceMETU), data=RealPrices)

## Error in is.data.frame(data): object 'RealPrices' not found

summary(PercentForm)

## Error in summary(PercentForm): object 'PercentForm' not found

plot(PercentForm)

## Error in plot(PercentForm): object 'PercentForm' not found

Regression Real Prices and Production

SecondRegression<- lm(CoalMarket$ProductionKShortTon ~ RealPrices$RealPriceMETU)

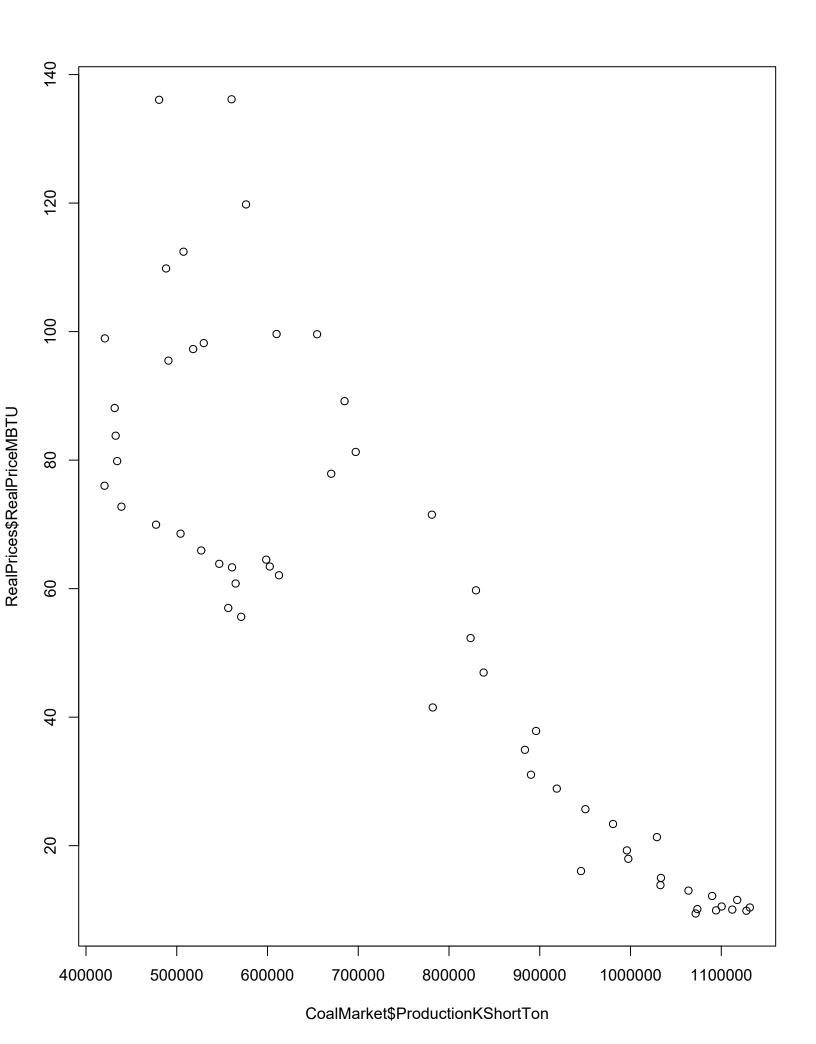
## Error in eval(expr, envir, enclos): object 'CoalMarket' not found

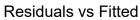
summary(SecondRegression)

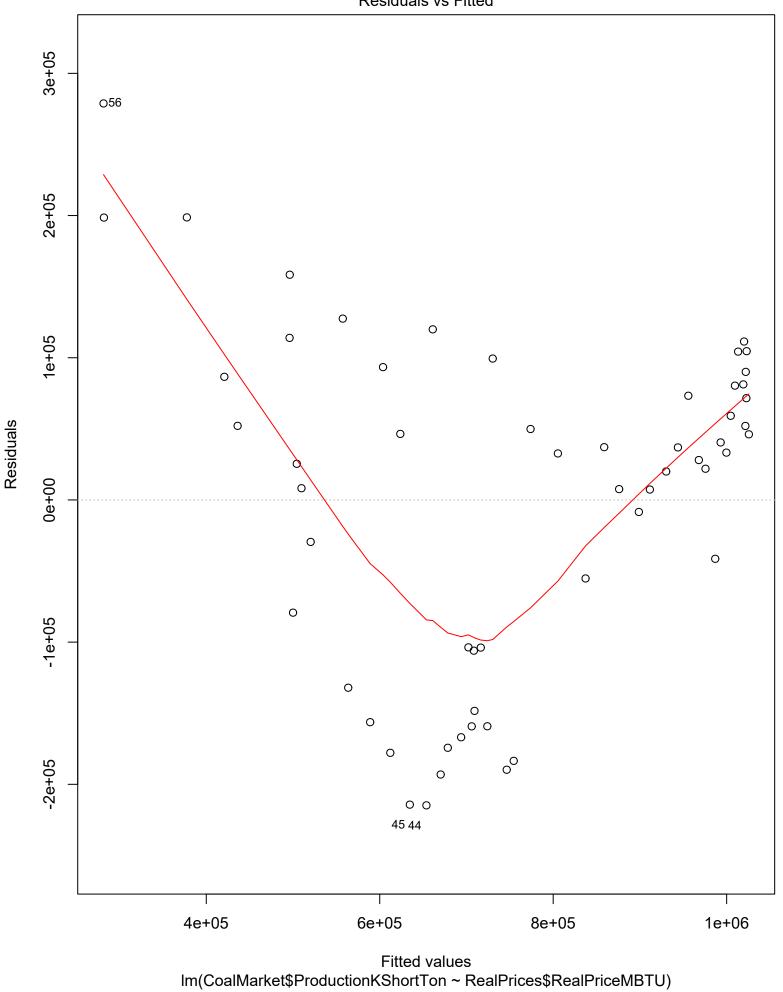
## Error in summary(SecondRegression): object 'SecondRegression' not found

plot(SecondRegression)

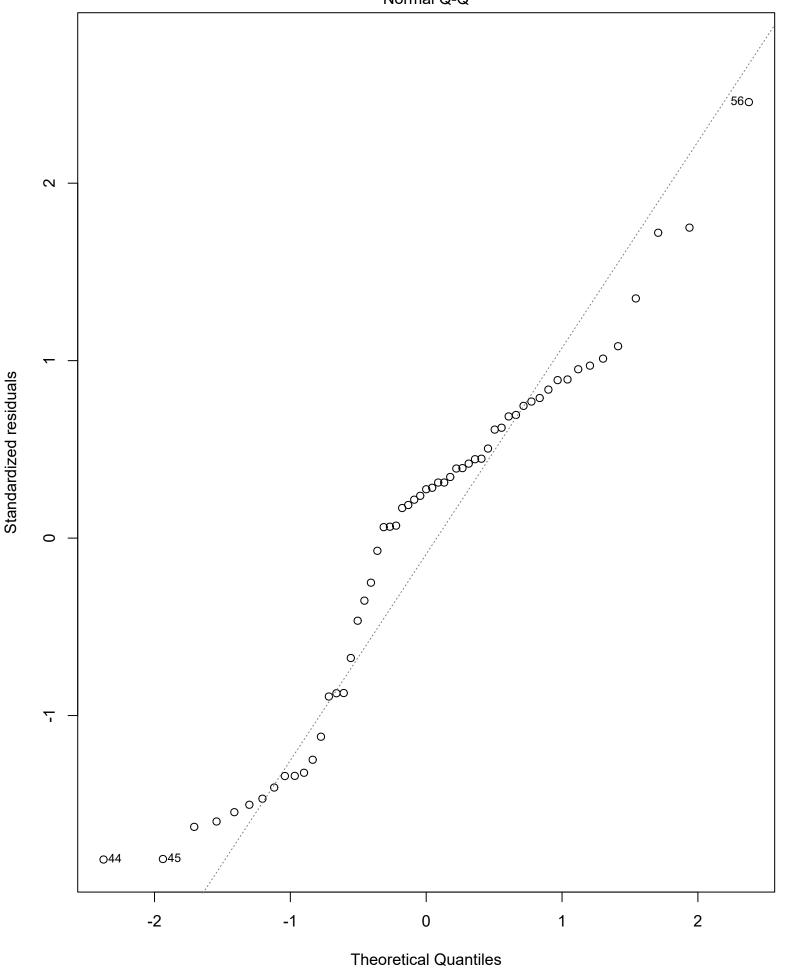
## Error in plot(SecondRegression): object 'SecondRegression' not found</pre>
```



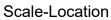


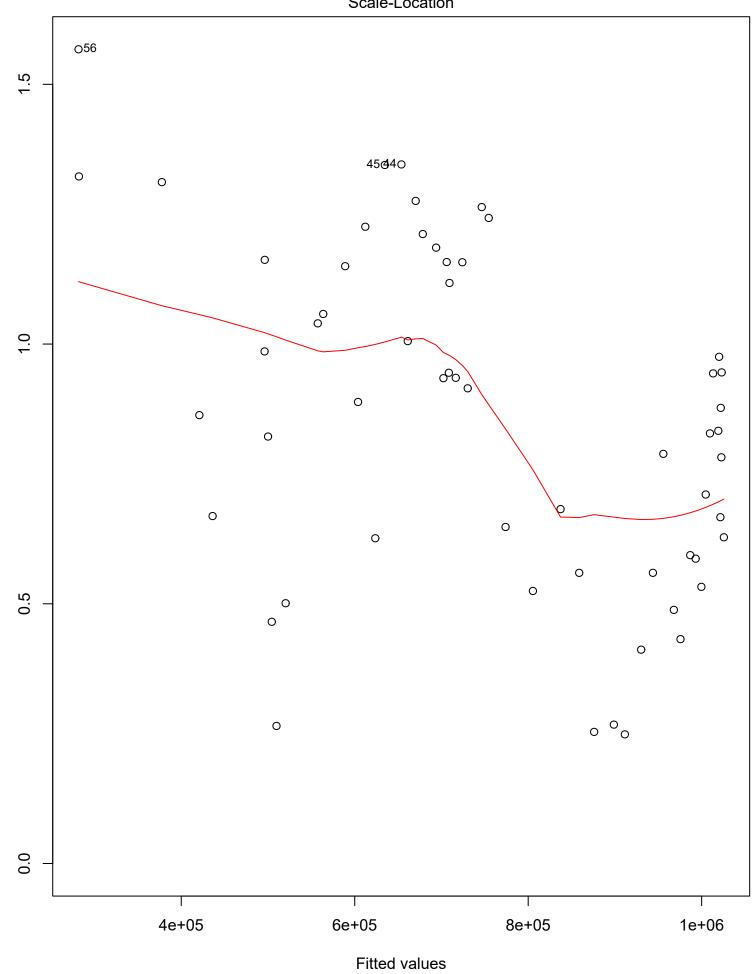






Im(CoalMarket\$ProductionKShortTon ~ RealPrices\$RealPriceMBTU)





√|Standardized residuals

Im(CoalMarket\$ProductionKShortTon ~ RealPrices\$RealPriceMBTU)

