STATS 205: Homework Assignment 6

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Solution to Problem 1

```
library(datasets)
data(cars)
head(cars)
    speed dist
##
## 1
       4
## 2
        4 10
## 3
       7
           4
## 4
       7 22
## 5
       8 16
## 6
           10
cars.supsmu = supsmu(cars$speed, cars$dist, bass = 0, span = "cv")
cars.supsmu
## $x
## [1] 4 7 8 9 10 11 12 13 14 15 16 17 18 19 20 22 23 24 25
##
## $y
  [1] 3.215603 13.088873 15.952774 18.313468 20.372250 22.088698 23.325991
## [8] 34.097170 40.661659 41.961822 44.189154 47.957931 52.212849 52.345757
## [15] 51.199218 68.137132 76.120652 83.390851 88.266828
library(ggplot2)
## Registered S3 methods overwritten by 'ggplot2':
##
    method
                   from
    [.quosures
##
                   rlang
##
    c.quosures
                   rlang
    print.quosures rlang
# qplot(x = cars.supsmu$x, y = cars.supsmu$y)
plot(x = cars.supsmu$x, y = cars.supsmu$y, type = "1", col = "red")
lines(x = cars$speed, y = cars$dist, col = "green")
```

