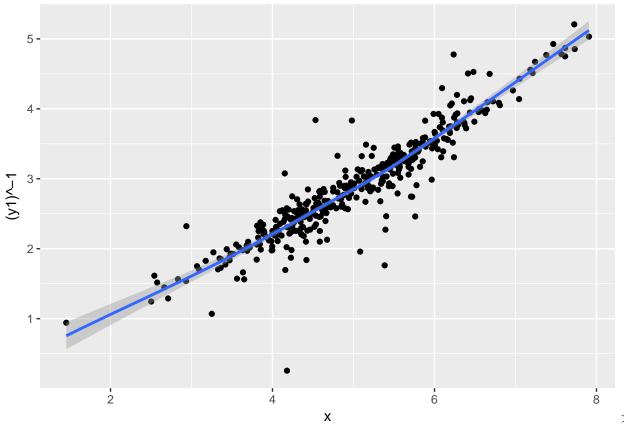
S670 Problem set 3

Erik

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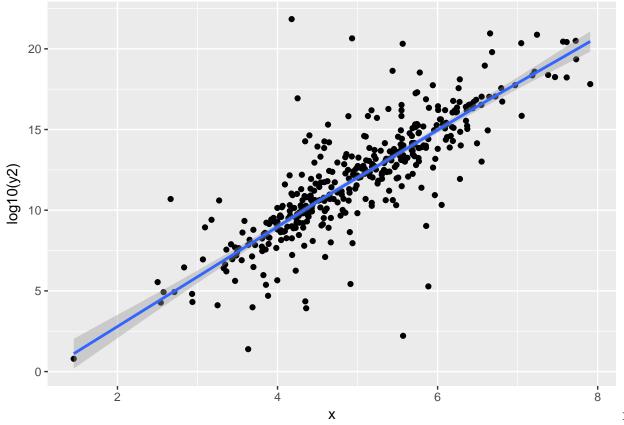
1. plot1 <- ggplot(problemset3, $aes(x = x, y = (y1)^-1)) + geom_point() + geom_smooth(method.args=list(deg plot1$

`geom_smooth()` using method = 'loess'



Loess curve with degree of 1 to make it follow a locally linear approach, straighter plot especially at the extremes.

`geom_smooth()` using method = 'loess'



Loess with degree 1 again, linear curve, symmetric family to be more resistant to outliers, important because of the big one at x = 4.

```
3.
plot3 <- ggplot(problemset3, aes(x = x, y = y3)) + geom_point() + geom_smooth(span=.1)
plot3</pre>
```

`geom_smooth()` using method = 'loess'

