Problem Set #6 Answer Key

Economics 435: Quantitative Methods

Fall 2011

1 Public sector unionization and size of government: Part III

Please see the file http://www.sfu.ca/~bkrauth/econ435/restricted/psu3.pdf. The R code used to generate these results is available at http://www.sfu.ca/~bkrauth/econ435/restricted/qunionization3.R

2 Question 17.2 from the textbook

The difference is

```
\begin{array}{ll} D & = & \hat{P}(grad=1|hsGPA=3,SAT=1200,study=10) - \hat{P}(grad=1|hsGPA=3,SAT=1200,study=5) \\ & = & \Lambda(-1.17+0.24\times3+0.00058\times1200+0.73\times10) - \Lambda(-1.17+0.24\times3+0.00058\times1200+0.73\times5) \\ & = & 0.01939030 \end{array}
```

or about two percentage points.

In order to calculate the final number, you could execute these two lines of code in R: