Example of R Markdown for PDF

Shunkei Kakimoto

Problem 1

$$
\begin{aligned}
\hat{\beta} &= (\mathbf{X'X})^{-\mathbf{1}}(\mathbf{X'Y}) \\
&= (\mathbf{X'X})^{-\mathbf{1}}(\mathbf{X'}(\mathbf{X}\beta + \mathbf{e})) \\
&= (\mathbf{X'X})^{-\mathbf{1}}\mathbf{X'X}\beta + (\mathbf{X'X})^{-\mathbf{1}}\mathbf{X'e} \\
&= \beta + (\mathbf{X'X})^{-\mathbf{1}}\mathbf{X'e}
\end{aligned}
$$

Problem 2

Table 1: Example Regression Results

	OLS 1	OLS 2	OLS 3
log(Nox)	-1.04***	-0.72***	-0.79***
	(0.08)	(0.07)	(0.06)
Rooms		0.31***	-0.76***
		(0.02)	(0.17)
Rooms sq			0.08***
			(0.01)
Num.Obs.	506	506	506
R2	0.264	0.514	0.549

* p < 0.05, ** p < 0.01, *** p < 0.001

Note: Std. Errors in parentheses