

PS8 McGuire

Kevin McGuire

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Each optimization and regression model was able to approximate the true values supplied in the homework. For some, such as solving the $X'X X'Y$ equation, provided the exact values, while others provided only very close results.

Table 1:

	<i>Dependent variable:</i>
	Y
X1	1.499*** (0.001)
X2	-1.001*** (0.001)
X3	-0.250*** (0.001)
X4	0.750*** (0.001)
X5	3.502*** (0.001)
X6	-2.000*** (0.001)
X7	0.499*** (0.001)
X8	1.000*** (0.001)
X9	1.250*** (0.001)
X10	1.999*** (0.001)
Observations	100,000
R ²	0.998
Adjusted R ²	0.998
Residual Std. Error	0.250 (df = 99990)
F Statistic	4,331,493.000*** (df = 10; 99990)
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01