$PS8_Patel$

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- 5 The closed-form solution is very accurate in terms of the true value given. This is not surprising because there is no guesswork involved. It is a more precise method.
- 7 Results for L-BFGS are almost the same as 6. Nelder-Mead gives incorrect results in comparison. Yes, they differ. This is intriguing but can be accounted for
- 9 The table below shows that the given true value from is a very close calculation.

Table 1:

	Table 1:
	Dependent variable:
	Y
X1	1.501***
	(0.002)
X2	-0.996^{***}
	(0.002)
X3	-0.249^{***}
	(0.002)
X4	0.747^{***}
	(0.002)
X5	3.502***
	(0.002)
X6	-1.999^{***}
	(0.002)
X7	0.501***
	(0.002)
X8	0.999***
	(0.002)
X9	1.253***
374.0	(0.002)
X10	1.999***
	(0.002)
Observations	100,000
\mathbb{R}^2	0.991
Adjusted R ²	0.991
Residual Std. Error	0.500 (df = 99990)
F Statistic	$1,080,712.000^{***} (df = 10; 99990)$
Note:	*p<0.1; **p<0.05; ***p<0.01
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