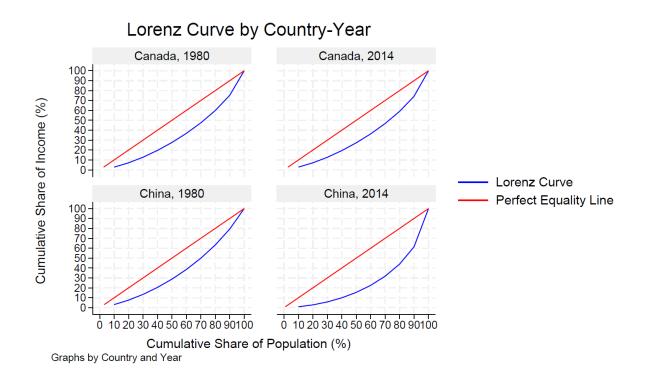
Written Answers

Part 1

Question 3a)



Across countries:

In 1980 Canada had a slightly larger income inequality than China. For example, if you look at China's 70th percent of population, it holds a little over 50% of the income. In contrast to Canada at the 70th percent of population, it holds a little under 50% of the income.

In 2014 China had a larger income inequality than Canada. For example, if you look at China's 90th percent of population, it holds a little over 50% of the income. In contrast to Canada at the 90th percent of population, it holds around 70% of the income.

Across periods:

<u>Canada:</u> From 1980 to 2014, the Lorenz curve doesn't seem to change that much, indicating that income inequality hasn't changed much. For example, in 1980, 90% of the population owned roughly 75% of the total income. In 2014, the number doesn't change.

<u>China:</u> From 1980 to 2014, the Lorenz curve indicates that inequality increased, as demonstrated by the deviation from the perfect equality line. For example, in 1980, 90% of

the population controlled roughly 80% of the total income. In 2014, 90% of the population controlled roughly 60%.

Part 2

Question 1b)

Source	SS	df	MS	Number of obs		763
Model Residual	14.9926947 301.127911	3 759	4.99756491		= = = I =	12.60 0.0000 0.0474 0.0437
Total	316.120606	762	.414856438		=	. 62988
mealprice	Coefficient	Std. err.	t	P> t [95% c	onf.	interval]
state time stateXtime _cons	.3086927 0157487 .0794417 3.042368	.0805978 .1039626 .1156924 .0722517	3.83 -0.15 0.69 42.11	0.000 .15047 0.88021983 0.49314767 0.000 2.9005	372 34	.4669137 .1883398 .3065568 3.184205

The Difference-in-differences estimate is the coefficient on the interaction variable. Thus, the DID estimate is .0794417.

<u>Interpretation</u>: For states with an increase in minimum wage, the price of a meal (fries + drink + entree) increased by \$0.079 on average as compared to states with no increase in minimum wage. However, the p-value is > 0.05, we cannot say that the result is statistically significant.

Question 2a)

Jewish				
institutio				
n one				
block	after			
distant	0	1	Total	
0	.08146853	.10300699	.09343434	
1	.08385093	.09627329	.09075224	
Total	.08190639	.10176941	.0929414	

Thefts	Before	After	Difference (within group)
Treatment Group: jewish institution within one block	0.08146853	0.10300699	(.103081) = .023
Control group: jewish institution not within one block	0.08385093	.09627329	(0.096084) = .013
Difference (within period)	(0.081-0.084) = -0.003	(0.103096)=0. 007	(0.007-(003) = 0.01

Question 2c)

Source	SS	df	MS	Number of	obs	=	7,008
				F(5, 7002	:)	=	3.28
Model	1.0231488	5	.20462976	Prob > F		=	0.0058
Residual	436.568024	7,002 .06	.062349047	R-squared		=	0.0023
			_	Adj R-squ	ared	=	0.0016
Total	437.591173	7,007	.062450574	Root MSE		=	.2497
thefts	S Coefficient	Std. e	rr. t	P> t	[95%	conf.	interval]
samebloc	.0167424	.02433	84 0.69	0.492	030	9682	.064453
onebloc	0037377	.01263	88 -0.30	0.767	028	5137	.0210383
afte	.0108407	.00700	32 1.55	0.122	0028	8878	.0245692
ameblockXafte	0883182	.03078	59 –2.87	0.004	148	6678	0279685
oneblockXafte	0066999	.0159	87 -0.42	0.675	038	0393	.0246395
_cons	.0958702	.00553	66 17.32	0.000	. 085	0169	.1067235

<u>Interpretation:</u> The coefficient on the first treatment group interaction term (sameblockXafter) is -0.088 and the coefficient on the second treatment group interaction term (oneblockXafter) is -0.006. We can see that on average, after the attack, a police presence within the same block and one block roughly decreases thefts by -0.088 and -0.006 respectively.

However, the p-value for the (oneblockXafter) term is greater than 0.05 so the result is not statistically significant. Therefore, the deterrence effect does not extend beyond the same block.