EC 380: International Economic Issues

Instructor: P. Economides Practice Solutions: Final Exam

Fall 2022

## Setup

The questions for the following solutions are available on Canvas under 'practice-prob.pdf'. The details surrounding reaching each of these answers can be discussed during email/office hour correspondence.

### Tariff Theory

Q1.	Price	$Q_d$	$Q_s$	Imports	CS	PS	GS			
Autarky	166.	348.	348.	0	25923.	20162	_	46085		0
Free Trade	120	455	210	245	44363.	7350	0	51713		0
Tariff	148	390.	294	95.7	32537.	14406	2679	9. 49622	. 1176	915
Q2.	Price	$Q_d$	$Q_s$	Imports	CS	PS	GS	Welfare	e Eff.Los	s DWI
Autarky	166.	218.	$\frac{4s}{218}$ .	0	11857.	14821		26678.	0	0
Free Trade	85	380	88	292	36100	2420	. 0	38520	0	0
Tariff	110	330	128	202	27225	5120	5050		500	625
Q3. Autarky Free Trade Tariff	Price 350 190 235	$Q_d$ 100 180 158.	$Q_s$ 100 36 54	Imports 0 144 104.	CS 10000 32400 24806.	PS 12500 1620 3645	GS 0 0 4658.	Welfare 22500 34020 33109.	Eff.Loss 0 0 405	DWI 0 0 506.
Q4. Autarky	Price 72.7	$Q_d$ 87	$Q_s$ 87	Imports 0	CS 3364	PS 2944.	0	6308.	Eff.Loss	DWL 0
	35	129.	38.6	90.8	7439.	579.	0	8018.	0	0
Free Trade Tariff	50	112.	57.9	54.6	5625	1302.	820.	7746.	145.	127.

Q5. Consider a final good tariff of 12 percent and an input good tariff of 37 percent.

Variable	No Tariff	+ Tariff on Final Good	+ Tariff on Input Good
Price of Domestic Final Good Value of Imported Inputs Domestic Value-Added	2870 870 2000	3214. 870 2344.	3214. 1192. 2022.
Effective Rate of Protection, $\%$	0	17.2	1.12

#### Q6. Consider a final good tariff of 17 percent and an input good tariff of 20 percent.

Variable	No Tariff	+ Tariff on Final Good	+ Tariff on Input Good
Price of Domestic Final Good Value of Imported Inputs Domestic Value-Added	1910 430 1480	2235. 430 1805.	2235. 516 1719.
Effective Rate of Protection, $\%$	0	21.9	16.1

#### Q7.Consider a final good tariff of 10 percent and an input good tariff of 5 percent.

Variable	No Tariff	+ Tariff on Final Good	+ Tariff on Input Good
Price of Domestic Final Good Value of Imported Inputs Domestic Value-Added	4830 2415 2415	5313 2415 2898	5313 2536. 2777.
Effective Rate of Protection, $\%$	0	20	15

## **Balance of Payments**

ID	Description	Q8.	Q9.
1.	Current Account Balance	-550	-1830
2.	Capital Account Balance	100	290
3.	Financial Account		
3a.	Net acq of financial assets, excl financial der (increase/outflow (+))	870	7000
3b.	Net inc of liabilities, excl financial der (increase/inflow (+))	1200	-6300
3c.	Net change in financial derivatives	-80	-14780
4.	Statistical Discrepancy	-40	-60
5.	Memoranda		
5a.	Balance on current and capital accounts	-450	-1540
5b.	Balance on financial account	-410	-1480

Both balances are maintain current account deficits since their respective current account values are negative. This would imply both countries function as net borrowers, which is a status reflected by negative financial account balances.

# Exchange Rates

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Exchange Rate	Currency Reserve	$\%\Delta$ ExR
11.0 11.4	≈753 ≈781	2.98

Q11.

Exchange Rate	Currency Reserve	$\%\Delta$ ExR
110 88.9	≈240 ≈314	-19.4

Q12.

Exchange Rate	Currency Reserve	$\%\Delta$ ExR
489 439	13.1 14.5	-10.3