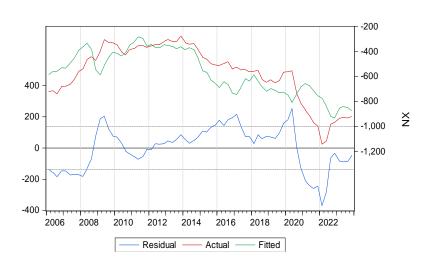
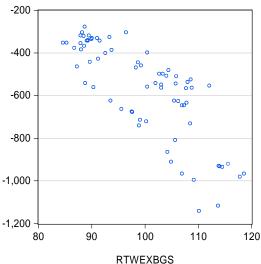
Assignment 1

- The median grade is 92 (see below). So, an answer sheet is somewhat unnecessary. Nonetheless, here are some suggestions/comments.
 - 1. [14 points + 5 bonus] Some of the factors that affect U.S. net exports are as follows. U.S. net exports to its major trading partners might increase if, *ceteris paribus*, the U.S. dollar depreciates (in relation to the currencies of its trading partners), the real GDP per capita in partner countries increases, the real GDP per capita in the U.S. decreases. Then there are other factors such as tariffs, sanctions, pandemics, etc. Think about providing *economic explanations* for the above relationships. Also, apart from omitted variables, there are some other issues regarding the estimated equation below. We will discuss them in class.

Dependent Variable: NX Method: Least Squares Sample: 2006Q1 2023Q4 Included observations: 72

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C RTWEXBGS	1339.244 -19.15226	175.8447 1.758889	7.616058 -10.88884	0.0000 0.0000
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.628779 0.623476 137.0091 1314005. -455.3929 118.5668 0.000000	Mean depend S.D. depende Akaike info cri Schwarz critel Hannan-Quini Durbin-Watso	nt var terion rion n criter.	-567.4120 223.2817 12.70536 12.76860 12.73053 0.197438

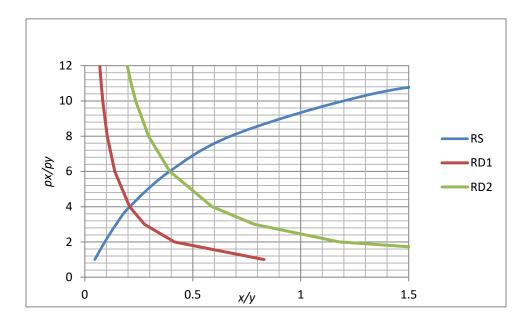




2. [22 points] You need to address *the three specific questions posed*, by *primarily* referencing the four attached papers. For some reason, the policy question, 2c, was not answered well by some of you; ditto, in some cases, 2a. Double-check the four papers!

3. [17 points]

Equilibrium 1: Intersection of *RD1* and *RS*: $Q_x = 6.00$, $Q_y = 28.84$; ratio = 0.21. Equilibrium 2: Intersection of *RD2* and *RS*: $Q_x = 7.80$, $Q_y = 19.87$; ratio = 0.39.



4. [20 points]

c and d. Note the sections highlighted in red in the text of the question.

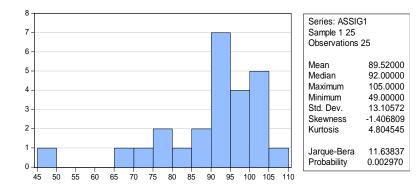
- e. Very simply, the calculations in c and d show that a country in whose favor the terms of trade have moved, is better off than before. The reverse is true of the other country. In this case Germany has gained at the expense of Spain. Nonetheless both are still better off trading than not.
- **5.** [8 points] The most important point here is the fact that in recent years East Asian economies (in particular China and Vietnam) have grown *much faster* than other economies elsewhere in the world. So, using the Gravity

Model $T_{ij} = A \frac{Y_i Y_j}{D_{ii}}$, what matters most *in this particular case* is not primarily A, or D_{ij} , rather the GDPs of

the East Asian economies. Also, keep in mind the direction of causality. Previously, they were quite small economies, meaning that their markets were too small to import a substantial amount. As they became more wealthy and the consumption demands of their populace rose, they were each able to import more. Thus, while they previously had focused their exports to other rich nations, over time, they became part of the rich nations club and thus were targets for one another's exports. Again, using the gravity model, when, for example, South Korea and Taiwan were both small, the product of their GDPs was quite small. Thus, *despite their proximity*, there was little trade between them. Now that they have both grown considerably, their GDPs predict a substantial amount of trade between them.

6. [19 points] Almost all did very well on this question. Note that you must draw the *RD* curve accurately (you need at least four points to draw the *RD*). Also, you *must* be consistent in your axis designation. That is, if you measure, say, bananas on the horizontal axis for your *PPF*'s (as you were asked to do), then in your *RD/RS* graph you *must* measure *Qb/Qa* on the horizontal axis of *RD/RS*, **not** *Qa/Qb*. Also, you must measure *pb/pa* on the vertical axis, **not** *pa/pb*. I went over this matter several times in class.

Statistical Report for Assignment 1 Grades



105	96	87	
103	94	80	
101	93	76	
101	92	76	
101	92	70	
101	92	69	
98	91	49	
97	90		
96	88		