Wilf Csaplar Jr.   Economics 202   Homework #1   **Due Friday 1/22 by 12:00 PM**

Do NOT write your name anywhere. (Canvas will tell me who turned in the assignment.) All answers must be typed, except for mathematics and graphs. Take pictures of your written answers and use your own software or https://pdfcandy.com/ to create a single PDF size A4. (pdfcandy.com will convert many file types to PDF, resize PDF, merge PDF and many other things for free. However, Apple phones may require using CamScanner before using pdfcandy.com.) Failure to follow these directions will cost you 10 points.
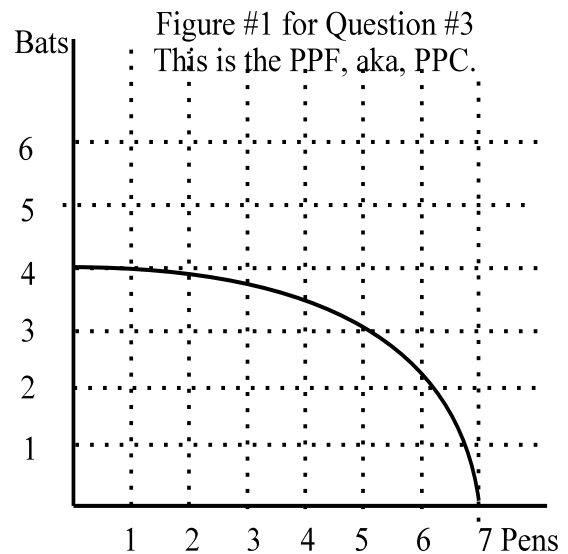
1) (20 points) Which part of my web page, http://www.WCsaplarJr.info do you think will be most helpful? Why? Is anything missing that you would like to see? What is the URL for the first exam from this class during the last semester it was taught? Suppose you were a sophomore Managerial Economics major, then what courses does the Economics Program suggest you be taking this semester? According to the boxes in yellow on my main page, which of the 25 most requested skills on LinkedIn are taught to our Economics majors?

2) **Explain** each answer including a typed short description of how you reached the conclusion and **show all mathematical work.** *Only for this question, you can draw directly on this graph,* but type the description of what you did and show all work on the answer sheet.
A) (5 points) What is the value of bats when there are 6 pens?
B) (10 points) What is the approximate slope when there are 2 pens?
C) (10 points) You will soon find out that on this graph, the absolute value of the slope is the opportunity costs of the pen at that point. What is the opportunity costs of the 6th pen?

Figure #1 for Question #3
This is the PPF, aka, PPC.

3) (20 points) On a graph on your answer sheet, (not the graph above) draw a line through points (0, 2) and (3, 8). Then find the slope of the line. Explain what you did.

4) (20 points) On a new graph, plot the line $Y = -\frac{2}{3}X + 4$. What are the slope, Y-intercept, and X-intercept? Briefly explain how you found each answer.

5) (15 points) On a new graph, plot the line $Y = 2 + \frac{1}{2}X$ from $X = 0$ to $X = 10$. What are the slope and Y-intercept. Briefly explain how you found each answer.

If you have problems with this assignment, I recommend that you drop this course and take it after you have passed College Algebra.