Math Assessment, Introductory Microeconomics for Public Policy, PPPA 6017

- A. Two Equations and Two Unknowns, 5 questions
 - 1. Suppose that x = 5y 3, and suppose that y = 2. What is x?
 - 2. Suppose that y = 400x 8000, and also that y = 52000 200x. The x in the (x, y) that satisfies both equations is
 - 3. The y in the (x, y) that satisfies both equations is
 - 4. There are two lines. The first is $y = 10\,000 100x$ and the second is $x = \frac{y}{100}$. At what point (x, y) do these two lines intersect? The x in the (x.y) intersection is ...
 - 5. The y in the (x, y) intersection is ...
- B. Graphing and Triangles, 4 questions
 - 1. Find the area of a triangle whose vertices are (1, 5), (1, 1) and (5, 1).
 - 2. Suppose you graph y 2 = 5x, putting x on the horizontal axis and y on the vertical axis. What is the slope of this line?
 - 3. What is the *y*-intercept from the equation in question 2?
 - 4. Graph points A and B. Point A is (5, 10), and point B is (10, 15). Relative to A, is B is
- C. Exponents, 2 questions
 - 1. Simplify $\frac{a^3}{a^1}$. Choices: $a^{1/3}, a^2, a^3, a^6$, no idea
 - 2. Simplify $\frac{b^{2/3}}{b^{5/3}}$. Choices: $1/b, b^{7/3}, b^{-7/3}, b^{10/3}$, no idea