

Final Exam
(100 points)

- (5 pts) 1. Identify an item that most people would consider to be a public good, and clearly explain why it is not a public good.
- (8 pts) 2. Provide two examples, one of a technological externality and one of a pecuniary externality. Explain why your examples qualify.
- (12 pts) 3. First, under what circumstances would it be appropriate to compute equivalent surplus? Second, provide a formula for equivalent surplus.
- (16 pts) 4. There are two usable procedures for gaining exact welfare measures using ordinarily available market data. What function(s) does each start with and what is the step-by-step procedure for each?
- (24 pts) 5. Justify the accuracy and relevance of the following quote by discussing, linking, and extending the important concepts. Organize your discussion well.
- "One way of going beyond the Pareto principle in making social welfare judgments involved the so-called compensation tests. The basic idea here is to compare two Pareto-incomparable alternatives by considering the possibility of the gainers compensating the losers in the move from one state to the other."
6. A regional industry is composed of 16 y producers, and a representative firm in this industry has the production function $y = 2x^{1/2}z^{1/4}$. The regional supplies of inputs x and z are given by $p_x = 4$ and $p_z = 16$. Total demand for the output of this industry is given by $y_D = \frac{1}{p}$ where p is the price of y . A "price support" policy currently exists for y . According to this policy, $p = 5$.
- There is a policy proposal to be evaluated. This new policy would establish a revised price support policy in which $p = 7$.
- (30 pts) a. Perform all practically computable policy analysis. Also, as a check on your calculations, compute the producers welfare impact in at least two ways, neither of which computes $\Delta\pi$ using a profit equation.
- (5 pts) b. Summarize your findings and provide a discussion of these numbers so that a decision-making committee can properly understand these results.