PUBLIC ECONOMICS



David Cantarero Prieto / Carla Blázquez Fernández / Javier Isaac Lera Torres / Paloma Lanza León.

Este material se publica bajo licencia Creative Commons 4.0 Internacional BY-NC-SA

EXERCISES

TOPIC 3.1. DISTRIBUTIONAL INCIDENCE OF TAXATION.

EXERCISE 1

Suppose there are three individuals, A, B and C. The realization of a Public Expenditure of 9 units gives individual A a profit of 2, individual B a profit of 2 and individual C a profit of 7. The income of each of the individuals is, respectively, 15, 15 and 60. The Public Expenditure is approved by a vote.

- a) Would the result of this vote be efficient with a capitation-financing rule?
- b) What about a proportional income tax? Assume that this tax is 10%.

EXERCISE 2

Answer the following questions and give reasons for your answers:

- (a) What elements determine whether the excess tax, or the welfare costs associated with a tax, are higher or lower?
- (b) Explain the following statement: "the tax has been transferred".

EXERCISE 3

Suppose there are two goods X and Y. The substitution effects between the two goods are summarized in the following matrix S:

$$S = \begin{bmatrix} S_{XX} S_{XY} \\ S_{YX} S_{YY} \end{bmatrix} = \begin{bmatrix} -1+1 \\ +1-1 \end{bmatrix}$$

The price of both goods before taxes is equal to one (pX = pY = 1).

- a) What is the excess of a tax that levies the consumption of good X at 25%?
- b) After introducing the 25% tax on good X, it is proposed to introduce a 12.5% tax on good Y. What is the new excess taxation?

EXERCISE 4

- 1. Indicate in which category of public income the financing of a general public service such as defence must be classified:
 - a) Public price.
 - b) Tax.
 - c) Rate.
 - d) Social contribution.

2. A direct tax:

- a) It is always supported by that person from whom it is required.
- b) Actually, it can be transferred and end up being supported by an economic taxpayer other than the taxpayer.
- c) It is always supported 50% by that person from whom it is required.
- d) It is never supported by that person from whom it is required.
- 3. The excess tax or welfare costs will be greater when:
 - a) The higher the pre-tax expense of the asset that we consider.
 - b) The lower the price elasticity of demand for the good that we consider.
 - c) Less is the pre-tax expense of the good that we consider.
 - d) The lower the tax rate on the asset that we consider.
- 4. The excess tax or welfare costs will be greater when:
 - a) The lower the price elasticity of demand for the good that we consider.
 - b) Less is the pre-tax expense of the good that we consider.
 - c) The higher the tax rate of the asset that we consider.
 - d) The lower the tax rate on the asset that we consider.