Homework Assignment 2

- 1. A firm is using two inputs, x_1 and x_2 , to produce one output, y. The input prices are w_1 and w_2 , respectively. The price of x_1 (w_1) has increased, while w_2 has remained unchanged. The firm has responded to this by changing how much of each input it uses without altering the quantity of its output.
 - (a) What has happened to the firm's use of x_1 and x_2 ? Show your answer graphically.
 - (b) Have the overall costs of the firm gone up or down?
- 2. Show who bears the burden of an excise tax in the short run and long run. Is the tax burden borne by the consumer or the producer, or by both?
- 3. Taxi licenses and public transport: discuss the implications of expanding public transport network on the cost of taxi licenses.
- 4. Patents offer inventors a temporary monopoly and thus allow then to enjoy higher profits than in a competitive environment while the patent lasts. This allows them to sell their products well above the marginal cost. It has been argued that in the case of life-saving medications (for example antiviral drugs against AIDS), the patent protection should be short-lived or none so that the medicines can be distributed cheaply, especially in less developed countries. Discuss.

References

Varian, H. R. (2014). *Intermediate Microeconomics: A Modern Approach*. 9th ed. W. W. Norton & Company.