

## *Problems with Mathematical Economics*

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Although there are many problems and concerns about the use of mathematics in economics, there is no ongoing debate in this field, except for the Austrian movement. For example, the static mathematical models of general and partial equilibrium are not able to describe a dynamic market process, the pricing of the factors, the economic impossibility of socialism etc. The similar case is with Cobb-Douglas production function, the most common function in the whole economic literature. Besides the problems pointed out by Austrian economists, some equations of the mathematical economics suffer from other defects. Because mathematical economics and econometrics try to imitate the methodology of natural sciences, especially physics, they should imitate every aspect of its methodology. In his recent contribution, William Barnett („Dimensions and Economics: Some Problems”) demonstrated that the Cobb-Douglas production function does not fulfill the elementary conditions of the dimensional analysis, which is essential in the scientific work involving mathematics. The absence of the dimensional analysis in mathematical economics led to some irresolvable paradoxes. An equation which has inconsistent dimensions/units, according to methodology of natural sciences, is incorrect.