
LOGIC & CRITICAL REASONING¹

1) INTRODUCTION

The role of logic and critical reasoning can take many forms in academic research. The two broad categories can be philosophical or theoretical research and empirical or applied research. Hybrid research is also gaining popularity in humanities as the scope of social sciences broadens to areas that were previously considered outside its domain.

I found the use of mathematical language being increasingly included in humanities to explain complex social phenomenon that are otherwise difficult to present in plain English or any other human language. The case-in-point is economics. The study of economics in the contemporary era is heavily sedated with mathematics. Economics is not considered a hard-science. Mathematics, on the other hand, is the queen of hard sciences. Where would then economics stand in terms of its classification as a branch of knowledge? Is it a hard science or is it humanities? The classification of research on economics is strictly placed under social sciences by main-stream academia so the answer is probably that economics in academia is a social science. Even the suffix of science, after economics, took a while to be accepted in academia.

The use of mathematical symbols in philosophy is now accepted as a norm. Is this acceptance due to the fact that mathematical language allows easy representation of complex ideas with its neat symbols? Or is it because no one really cares what meanings are derived from any theoretical representations in philosophy by the use of mathematical symbols? These questions are the basis of this paper. The course material for this period included a book by two American professors who have used mathematical symbols to elucidate their philosophical theories on logic and critical reasoning (Anand and Andrew 2011). Anand and Andrew (2011) heavily relied on mathematical equations to explain their arguments about logic and critical reasoning. From here onwards Anand and Andrew (2011) will be referred to as the "book" in the proceedings of this paper. I will be examining their arguments in light of other philosophical literature that explains the same arguments without the use of mathematical symbols.

2) PHILOSOPHY OF MATHEMATICS & LOGIC

One has to be careful to use the words mathematics and philosophy so closely. The closely held belief of mathematicians is that the straightest path to the truth about our universe is through mathematics. This belief comes from Pythagoras's assertion that "all is number" (Weisstein 2006, 30). Galileo argued that the book of nature is written in the

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