

# MATHEMATICS, REASON & RELIGION

JAVIER LEACH

Universidad Complutense de Madrid

**ABSTRACT:** This paper will study the relationship between mathematics and religion from the perspective of reason and the role played by reason in human knowledge. Firstly, I will study the relationship between reason, logic and mathematics. From this starting point, I will study the relationship between reason and natural science and finally, I will draw some conclusions on the relationship between reason, philosophy and theology. The relationship between mathematics, reason and religion will be studied within the context of the global unity of human knowledge. This paper intends to explain how the 'pure deductive reason' is present in all human thinking. Mathematics and natural science share this universal presence with metaphysics and religion. Pure deductive reasoning is somehow an absolute value that transcends all aspects and levels of human knowledge, including metaphysical and religious knowledge. Metaphysical and theological arguments need to be able to span different cultural communities. Pure deductive reasoning is a kind of reasoning that can fully span communities and it forms a basis for inter-disciplinary, inter-cultural and inter-religious communication.

**KEY WORDS:** mathematics, reason, pure deductive reason, logic, natural science, metaphysics, religion, revelation.

## *Matemática, Razón y Religión*

**RESUMEN:** En este artículo voy a estudiar la interrelación entre matemática y religión desde el punto de vista de la razón y del papel de ésta en el conocimiento humano. En primer lugar estudiaré la relación entre la razón, la lógica y la matemática. Partiendo de ahí estudiaré la relación entre la razón y las ciencias de la naturaleza y por último sacaré conclusiones acerca de la relación entre la razón, la filosofía y la teología. Estudiaré la relación entre matemáticas, razón y religión dentro del contexto de la unidad global del conocimiento humano. Este artículo pretende explicar la presencia y el rol de la 'pura razón deductiva' en el conocimiento humano. La matemática y las ciencias de la naturaleza comparten esa presencia universal con la metafísica y la religión. La pura razón deductiva es de algún modo un valor absoluto que trasciende todos los aspectos y todos los niveles del conocimiento humano, incluyendo el conocimiento metafísico y religioso. Los argumentos metafísicos y religiosos necesitan ser capaces de alcanzar a las distintas comunidades culturales. La pura razón deductiva es capaz de alcanzar a todas las comunidades y constituye una base para la comunicación inter-disciplinar, inter-cultural e inter-religiosa.

**PALABRAS CLAVE:** matemática, razón, pura razón deductiva, lógica, ciencias de la naturaleza, metafísica, religión, revelación.

## INTRODUCTION

At first sight, it appears that mathematics and religion are two different and unconnected topics: that the one has nothing to do with the other. History however demonstrates how many thinkers have discovered different kinds of relationship between mathematics and religion. We know that the Pythagoreans gave certain mathematical structures a religious meaning<sup>1</sup>. In the last few years,

<sup>1</sup> PERRY HEMENWAY, *Divine Proportion: Phi in Art, Nature, and Science*, Sterling Publishing Company Inc., 2005, p. 56.

# Mathematics And The Image Of Reason

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*Mathematics and the Image of Reason* Mary Tiles, 2013-01-11 A thorough account of the philosophy of mathematics In a cogent account the author argues against the view that mathematics is solely logic **Mathematical Reasoning** Lyn D. English, 2013-04-03 How we reason with mathematical ideas continues to be a fascinating and challenging topic of research particularly with the rapid and diverse developments in the field of cognitive science that have taken place in recent years Because it draws on multiple disciplines including psychology philosophy computer science linguistics and anthropology cognitive science provides rich scope for addressing issues that are at the core of mathematical learning Drawing upon the interdisciplinary nature of cognitive science this book presents a broadened perspective on mathematics and mathematical reasoning It represents a move away from the traditional notion of reasoning as abstract and disembodied to the contemporary view that it is embodied and imaginative From this perspective mathematical reasoning involves reasoning with structures that emerge from our bodily experiences as we interact with the environment these structures extend beyond finitary propositional representations Mathematical reasoning is imaginative in the sense that it utilizes a number of powerful illuminating devices that structure these concrete experiences and transform them into models for abstract thought These thinking tools analogy metaphor metonymy and imagery play an important role in mathematical reasoning as the chapters in this book demonstrate yet their potential for enhancing learning in the domain has received little recognition This book is an attempt to fill this void Drawing upon backgrounds in mathematics education educational psychology philosophy linguistics and cognitive science the chapter authors provide a rich and comprehensive analysis of mathematical reasoning New and exciting perspectives are presented on the nature of mathematics e g mind based mathematics on the array of powerful cognitive tools for reasoning e g analogy and metaphor and on the different ways these tools can facilitate mathematical reasoning Examples are drawn from the reasoning of the preschool child to that of the adult learner

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