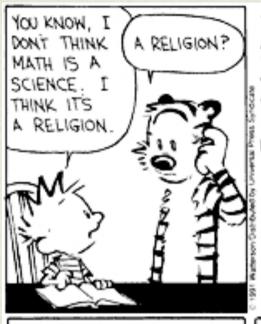
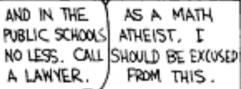
AOK: MATHEMATICS



YEAH. ALL THESE EQUATIONS
ARE LIKE MIRACLES. YOU
TAKE TWO NUMBERS AND WHEN
YOU ADD THEM, THEY MAGICALLY
BECOME ONE NEW NUMBER!
NO ONE CAN SAY HOW IT
HAPPENS. YOU EITHER BELIEVE
IT OR YOU DON'T.





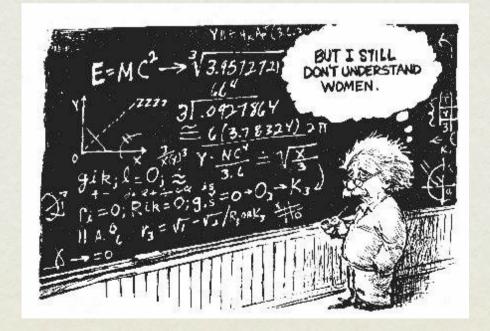




KNOWLEDGE ISSUES? WHAT ARE THE POTENTIAL KNOWLEDGE CLAIMS?

 What does it mean to say that mathematics can be regarded as a formal game devoid of intrinsic meaning? If this is the case, how can there be such a wealth of applications in the real

world?



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KNOWLEDGE ISSUES? WHAT ARE THE POTENTIAL KNOWLEDGE CLAIMS?

- What does it mean to say that mathematics is an axiomatic system?
- Is mathematics invented or discovered?
- What are the roles of empirical evidence and inductive reasoning in establishing a mathematical claim?
- Are all mathematical statements either true or false?
- Is mathematics simply a tool?

WHAT IS THE KNOWER'S PERSPECTIVE? WHAT OTHER PERSPECTIVES DO WE NEED EVALUATE?

- Methods of proofs/knowing some mathematics by contradiction/ contrapositive/exhaustion
- Cultural bias within mathematics, strength or curse?
- Why do I have an emotional response of maths? And why is it so hard to communicate?
- Creativity/imagination

MATHEMATICS

is one of the essential emanations of the human spirit, a thing to be valued in and for itself, like art or poetry.

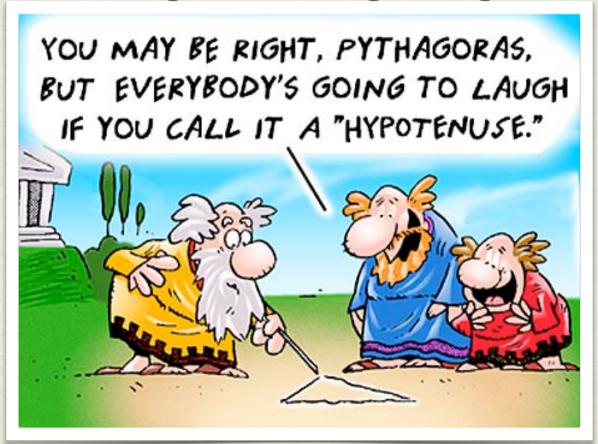
OSWALD VEBLEN 1924

LINKS TO OTHER AOK/ WOK

- Can mathematics be characterized as a universal language?
- Why is it that mathematics is considered to be of different value in different cultures?
- To what extent is mathematics a product of human social interaction?
- Lagemaat questions at the end of each chapter

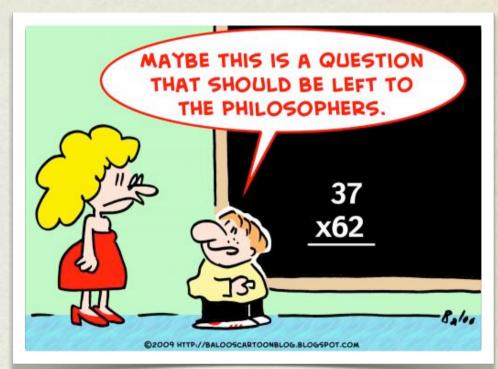
AT THE CONCLUSION OF THIS UNIT YOU WILL KNOW:

how to present an argument in a logical, organized fashion.



AT THE CONCLUSION OF THIS UNIT YOU WILL BE ABLE TO:

- understand there are different perspectives of mathematics
- be able to understand the relationship with other AoK's
- link back to their own
 mathematics subject and be
 able to apply your



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