

# PRAYER

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Most blessed Lord, send the grace of Your Holy Spirit on me to strengthen me that I may learn well the subject I am about to study and by it become a better person for Your glory, the comfort of my family, and for the benefit of Your Church and the world.

Amen.



# INTRODUCTION

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*Math 101: Euclidean Geometry*



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The laws of nature are but the  
mathematical thoughts of God.

*-Euclid*



# LET'S GO SEE WHAT GOD IS THINKING!

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*Bring back one object from  
nature!*



# EUCLID & THE ELEMENTS

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- He lived in Alexandria ~300 BC, but really know nothing else about his life
- Elements are one of the most famous mathematical works
- Euclid did not discover all the theorems but he presented them in a logical manner, demonstrating that they necessarily follow from five simple axioms.
- Also credited with devising a number of particularly ingenious proofs of previously discovered theorems (eg. Thm 48, Bk 1)





# EUCLIDEAN GEOMETRY

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- The word geometry comes from the Greek words ‘geo’ meaning the ‘earth’ and ‘metrein’, meaning ‘to measure’
- Originated from the need for measuring land
  - Computing volumes of granaries, constructing canals, building pyramids
- Greeks were especially interested in the reasoning behind why certain constructions work. They were interested in establishing the truth of the statements they discovered using **deductive reasoning**.





*Why is learning Euclidean geometry important? How does it help me get a job?*