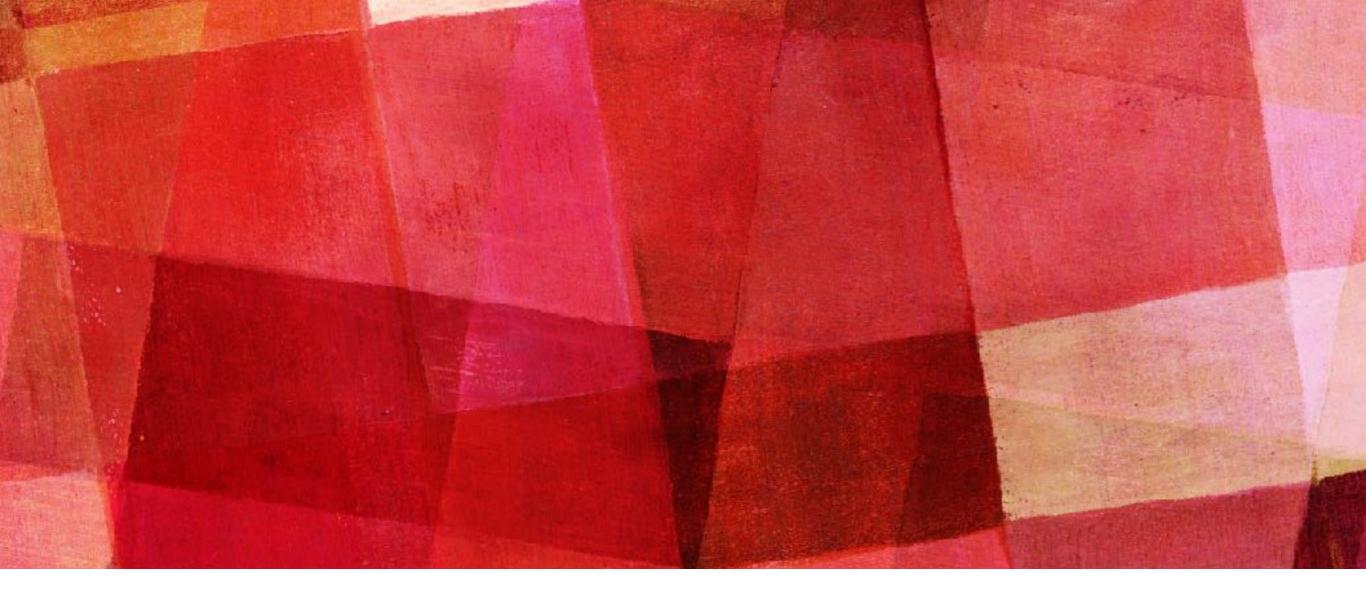
PRAYER

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

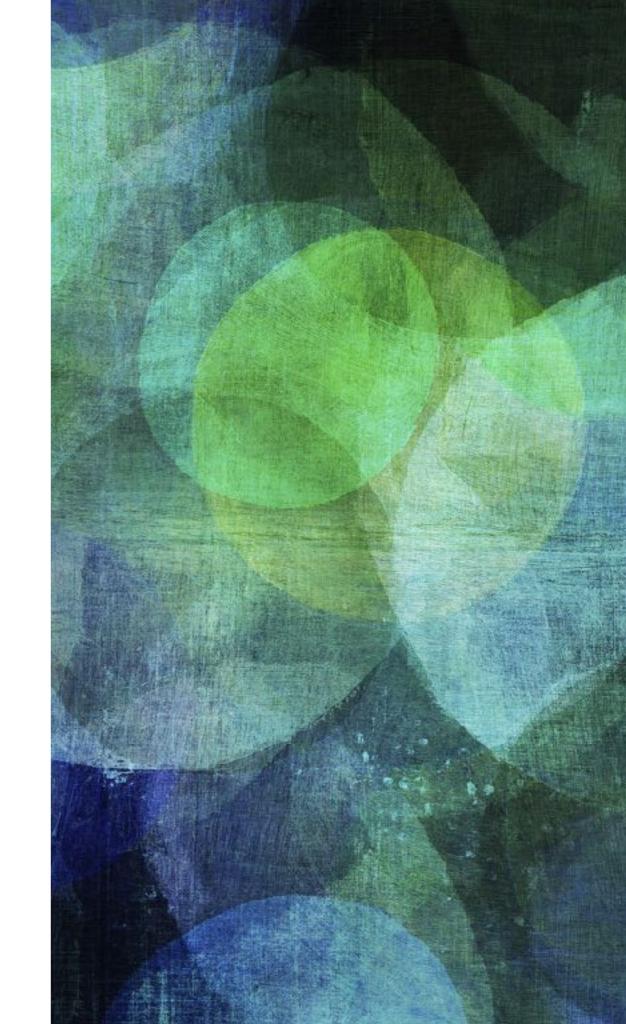
Math 101: Euclidean Geometry

66

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

LET'S GO SEE WHAT GOD IS THINKING!

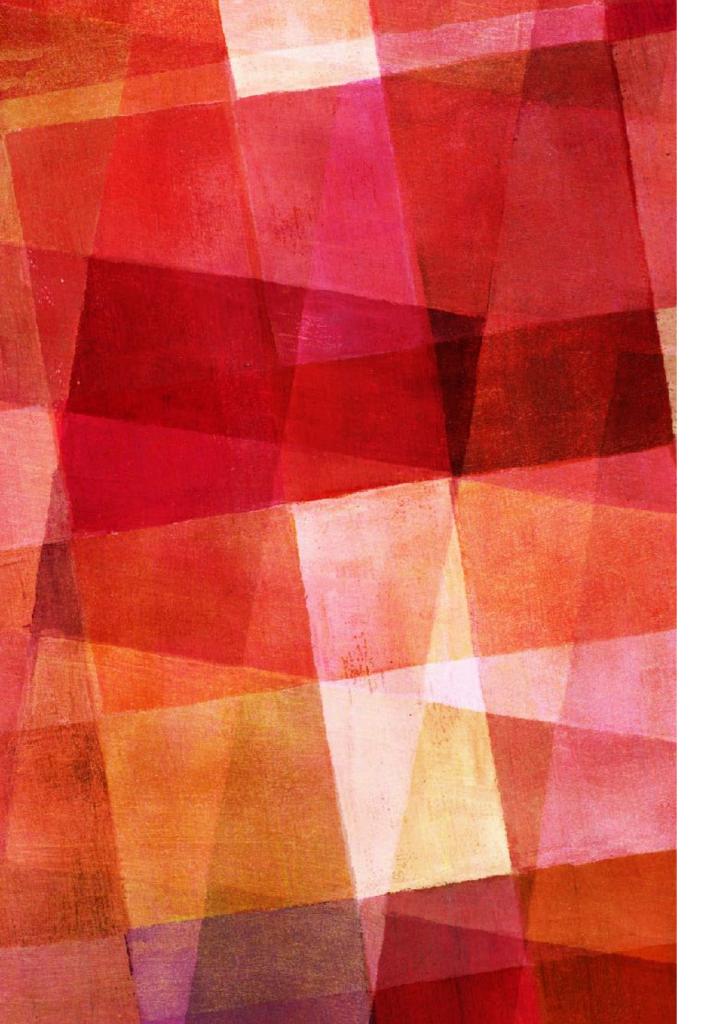
Bring back one object from nature!



EUCLID & THE ELEMENTS

➤ 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

- ➤ 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?