Course

Course Math 308, Euclidean Geometry,
2017 W. Term 2, January – April 2018
Section 201

Instructor Kee Y. Lam
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Contact: keeylam308@gmail.com

Lectures: M W F 11:00 - 11:50 at MathX 1100

Text Book: Geometry from Euclid to Knots by Saul Stahl, Dover Publications 2010
Note: this text book is currently out of stock. Reference and notes will be provided during class.

Office Hours: Mondays 4:10 – 5:20 p.m.
Thursdays 3:30 – 5:00 p.m.
Other hours by appointment

Course Outline

1. A review of Euclidean Geometry with emphasis on the axiomatic approach. The Axioms of Euclid and Hilbert. The Parallel Axiom.
2. Some highlights of Euclidean Geometry.
3. Motions in Euclidean plane and space.
4. Groups of geometric transformations.
5. The Poincare upper-half plane and its geometry; Non-Euclidean Geometries.
6. The question of independence of the Parallel Axiom.
7. The question of consistency of an axiomatic system.

Evaluations

Assignments: A total of 8 or 9 Assignment Exercises (~12%), to be posted on Course Page. Late assignments will not be accepted. The assignment with the lowest score will be disregarded.
Quizzes: Two short quizzes (6% each).
Mid-Term: A one-hour mid-term, scheduled for Friday, February 16, 2018.
Final exam: A final exam in April 2018 accounting for 50% of the Course Grade

Public Holidays (no class) :
Monday Feb 12, 2018
Friday Mar.30, 2018
Monday Apr 2, 2018

Mid-term break: February 19 – 25, 2018