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Geometry for the Arts and Architecture MTH 211 spring 2010, 1-3

QUESTION 1. State clearly the five axioms of Euclidean Geometry.

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## Exam ONE, MTH 211, Spring 2010

Ayman Badawi

**QUESTION 2.** Draw two Circles, Say  $C_1$  and  $C_2$ , such that  $C_1$  is orthogonal to  $C_2$  ( $C_1$  is perpendicular to  $C_2$ . STATE THE STEPS NO NEED FOR MATH JUSTIFICATION.

**QUESTION 3.** Draw a line segment ab. Now divide the line segment into 3 equal parts. State the steps no need for math justification.

- (i) Find  $K_4$ .
- (ii) Find a general formula for  $K_n$

- (iii) USE (2) to find  $K_10$ .
- (iv) Let  $R_n = K_{n+1}/K_n$ . Find  $R_3$ . To what value does  $R_n$  converge to.

QUESTION 7. (EXTRA CREDIT 3 points). What is the name of your instructor and what is the course number? We meet on Su, Tu, Th at 11am in which room? What are the office hours of your instructor? (Answer: MUST BE EXACT as in the syllabus)? so now how do you feel about yourself (Good or Bad)?

## **Faculty information**

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