Mth 128
Intermediate Mathematics for Elementary Teachers
Review Guide for Exam I

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Midterm Details

• The exam will cover Chapter 8 and will be on Tuesday, February 15.
• Calculators will be allowed on this exam.
• For those students qualifying for special accommodations, please send me a reminder email no later than Friday, February 11.
• There will be a review session on Monday, February 14 at 6-7 PM in NM 357.
• You should try working some of the problems in the review section of Chapter 8.
• Be sure to take advantage of the office hours, SI sessions, and the AARC.

Topics for Exam I

• To understand and be able to apply the basic properties of points, lines, and planes (Section 8.1).
• To understand and be able to apply the basic properties of angles (Section 8.1).
• To understand and be able to apply the basic properties of polygons (Section 8.2).
• To understand and be able to apply the basic properties of triangles, quadrilaterals, and circles (Section 8.3).

• To understand and be able to apply the basic properties of pairs of angles such as vertical angles and supplementary angles (Section 8.4).

• To understand and be able to apply the basic properties of parallel lines and their relationship to angle pairs (Section 8.4).

• To understand and be able to apply the sum of angles in a polygon, especially the sum of the angles in a triangle. In particular, the sum of the measures of the interior angles of any convex polygon with $n$ sides is

$$180n - 360 = 180(n - 2)$$

(Section 8.4).

• To understand and be able to apply the ideas of geometry in three dimensions (Section 8.5).

• To understand the regular polyhedra and their properties (Section 8.5).

• To understand and be able to represent shapes from different perspectives (Section 8.6).

• To understand and be able to draw geometric objects (Section 8.6).

• To understand and be able to identify three-dimensional objects from two-dimensional representations (Section 8.6).