

## **MATH 494.594 / MIDTERM REVIEW**

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**Midterm covers: Homework 0 – 4, Activities 1 – 7 and GSP 1 - 4**

**You may use one side of one 3” × 5” card of notes on the exam**

### **Concepts to know**

- Precise definitions of geometric terms. In particular, all triangle components (height, altitude, median, etc.)
- Determining the formula for the sum of the degrees in an n-sided polygon (with a brief proof). See Activity 2.
- Determining the formula for the measure of a vertex angle in a regular n-sided polygon. See Activity 2.
- Facts about parallel lines (see Activity 2 in your coursepack)
- Compass and ruler constructions for angles and line segments.
- Basic two column proofs (study your homework and class activities).
- Reflecting angles/polygons in mirrors to create other shapes. Understanding which range of angles can create various shapes.
- Basic understanding of tessellations, including regular tessellations and non-regular tessellations such as tessellating with quadrilateral or pentagon.