MTH 111, Exam #3, Part 2, Fall 2020   Name _____

Instructions: For this portion of the exam, you may use the geometry formula sheet provided by your instructor, and a scientific calculator to find the solutions to the questions. You will then post the answers to those questions in Canvas under Exam #3 Part 2. You may not use other people or notes to complete the exam.

Academic Integrity Statement

I affirm that, I, _____ (student name), do attest that I alone am completing the problems on this test without receiving unauthorized assistance. I understand that violations of academic integrity may result in sanctions, up to and including expulsion from the college.

_____(Student Signature)

_____(Student ID number)

Attach a copy of your photo ID to the online submission (there is a question drop box for it). The ID must be a photo ID. A Driver's license, School ID (NOVA or otherwise), or a work ID are acceptable as long as it contains your full name and photo.
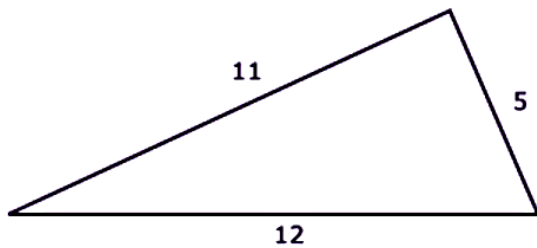
Every answer is worth 8 points.

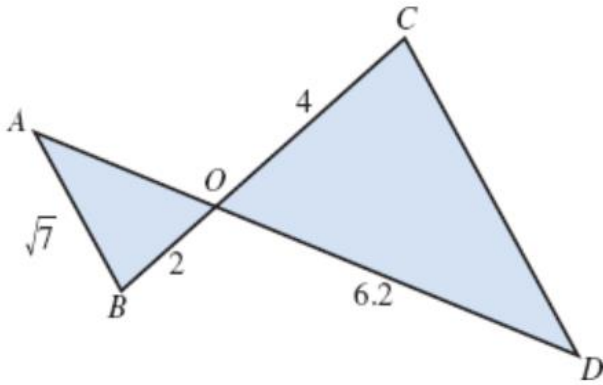1. Draw an example of an acute angle.

2. What is the difference between a regular and an irregular polygon? Illustrate with a drawing on each.
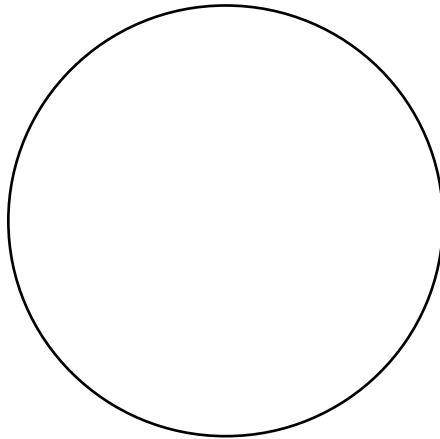
3. Draw an example of a heptagon.

4. Find the area of the triangle using Heron's formula.

11

5

12

5. Is triangle ABO similar to triangle DCO? Why or why not? Explain. Assume that $\overline{AB}$ and $\overline{CD}$ are parallel.

6. On the circle below, draw a) a radius, b) a chord, c) a tangent, d) an inscribed angle. Label each clearly.

7. Explain the difference between supplementary angles and complementary angles. Give an example of each.