

Problem Set 1**Advanced Geometry****Due 2/4/19**

Each problem is worth 2 points. Clear and complete justification is required for full credit. You are welcome to discuss these problems with anyone and everyone, but must write up your own final submission without reference to any sources other than the textbook and instructor.

1. Do Exercise 3 in §2.4.
2. (a) Do Exercise 5 in §2.4.
(b) Repeat but with a regular pentagon instead of a square.
3. Do Exercise 7 in §2.4.
4. Prove Theorem 2.6.8.
5. Prove Theorem 2.6.9.