

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. Make your submission as a pdf on Moodle.

1. Do Exercise 3 in §2.4.
2. (a) Do Exercise 5 in §2.4.
(b) Repeat but with a regular hexagon instead of a square.
3. Do Exercise 7 in §2.4.
4. Prove Theorem 2.6.6. Be explicit about exactly which axioms you use.
5. Prove Theorem 2.6.7. Be explicit about exactly which axioms you use.