

1. A rectangle is a four-sided figure such that the four interior angles are all right angles.
 - a) Prove that the opposite sides of a rectangle have equal length. Hint: You can use ASA (I-26).
 - b) Prove that the diagonals have equal length.
 - c) Prove that the diagonals bisect each other.
2. Prove that the exterior angles of a regular pentagon add to four right angles.