

LESSON 42 Proofs with Congruent Triangles

1. 3. Definition of bisect (or segment bisector)
 4. SSS

2. 3. If lines are parallel, then alternate interior angles are congruent. See Theorem 30.2.
 4. Reflexive Property
 5. SAS

3. 2. Reflexive Property
 3. ASA

4. 2. Vertical angles are congruent. See Theorem 29.4.
 3. AAS

5. 2. Definition of right triangle
 4. Reflexive Property
 5. HL