## Lesson 54 Proofs with Triangles

1. 2. Definition of centroid
1. A midsegment is half the length of the third side. See Theorem 46.1.
2. 2. Definition of midsegment
1. A midsegment is parallel to the third side. See Theorem 46.1.
2. A line perpendicular to one of two parallel lines is also perpendicular to the other. See Theorem 31.1.
3. Definition of circumcenter
4. 2. Definition of bisect (or angle bisector)
1. Reflexive Property
2. SAS
3. CPCTC (Corresponding parts of congruent triangles are congruent.)
4. Definition of midpoint
5. Definition of median
6. 2. A midsegment is half the length of the third side. See Theorem 46.1.
1. Substitution Property
2. Substitution Property
