Postulates: (You must write out the postulate in words, except for the last two postulates, in bold.)

- 1. Through any two points there is exactly one line.
- 2. Through any three noncollinear points, there is exactly one plane.
- 3. A line contains at least 2 points.
- 4. A plane contains at least 3 noncollinear points.
- 5. If two points lie in a plane, then the entire line containing those points lies in the plane.
- 6. If 2 lines intersect, then their intersection is exactly one point.
- 7. If 2 plane intersect, then their intersection is a line.
- 8. Segment Addition Postulate: If A, B, and C are collinear and B is between A and C, then AB + BC = AC.
- 9. Angle Addition Postulate: If D is in the interior of $\angle ABC$, then $m \angle ABD + m \angle DBC = m \angle ABC$.

Properties: (You may use the name of the property.)

- 1. Addition Property of Equality
- 2. Subtraction Property of Equality
- 3. Multiplication Property of Equality
- 4. Division Property of Equality
- 5. Reflexive Property of Equality
- 6. Symmetric Property of Equality
- 7. Transitive Property of Equality
- 8. Substitution Property of Equality
- 9. Distributive Property of Equality
- 10. Reflexive Property of Congruence:
- 11. Symmetric Property of Congruence:
- 12. Transitive Property of Congruence:

Theorems: (You must write out the theorem in words or symbols.)

- 1. If a point is a midpoint, then it divides a segment into two congruent segments.
- 2. If two angles form a linear pair, then they are supplementary angles.
- 3. If two adjacent angles form a right angle, then they are complementary angles.
- 4. If angles are supplementary to the same angle (or to congruent angles), then they are congruent.
- 5. If angles are complementary to the same angle (or to congruent angles), then they are congruent.
- 6. If two angles are vertical, then they are congruent.
- 7. If two lines are perpendicular, then they form four right angles.
- 8. If two angles are right angles, then they are congruent.
- 9. If two lines are perpendicular, then they form congruent adjacent angles.
- 10. If two congruent angles form a linear pair, then they are right angles.

Special Statements in Proofs:

- 1. If you want to use vertical angles, you must FIRST state that $\angle A$ is vertical to $\angle B$ (diagram).
- 2. If you want to use a linear pair, you must FIRST state that $\angle A$ and $\angle B$ form a linear pair (diagram).