SC Honors Geometry - Nappier
2.6 – Proving Geometric Relationships • Homework

Name: _____

Answer each question.

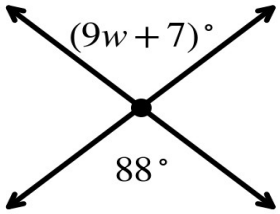
1. Two lines intersect, and one of the angles formed measures 71°. Find the measures of the other three angles.

2. ∠A and ∠B are each supplementary to ∠C. What can you conclude, and by which theorem?

3. ∠C and ∠D are complementary to congruent angles. What can you conclude?

Use the diagram for Exercise 4.

4. Find the value of w.



Solve each problem.

5. Two angles measuring (6y + 20)° and (4y)° form a linear pair. Find the value of y and both measures.

6. True or false: all right angles are congruent. Name the theorem.

Complete the proof.

7. Given: ∠1 ≅ ∠2 and ∠2 ≅ ∠3. Prove: ∠1 ≅ ∠3.

Statements	**Reasons**
1. ∠1 ≅ ∠2; ∠2 ≅ ∠3	**1.** Given
2.	**2.**