Advanced Geometry 5.1

Indirect proof

2-column proof vs. Indirect proof

2-column proof

- Done in a 2-column format

- Start with the given statements

- Proving a statement directly

Indirect proof

- Done in a paragraph format

- Start with the prove statement

- Getting a contradiction of an assumption

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Indirect Proof Procedure

1. List the possibilities for the conclusion.

2. Assume that the negation of the desired conclusion is correct.

3. Write a chain of reasons until you reach a contradiction.

4. State the remaining possibility as the desired conclusion.

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Sample Problems

- Read Sample Problems 1 and 2 on p. 212

Boss/Secretary Activity

- Choose your partner.

- You need one piece of paper for the two of you. Record the names of the Boss and the Secretary for each problem.

- The first Boss tells the first Secretary what to write to complete #1 on page 213.

- The second Boss tells the second Secretary what to write to complete #2 on page 213.

- Check your paper with me.

- Homework time!

Homework

p. 213 #5, 10, 12

QUIZ: Wednesday!!!!! (12/9)