Geometry
Unit: Introduction to Proofs
Section: Reasoning in Geometry

Review Worksheet

1. Define the following and give an example:

a. Inductive Reasoning:

b. Conjecture:

c. Deductive Reasoning:

d. Conditional Statement:

e. The Law of Detachment

f. The Law of Syllogism

2. State a conjecture based on the following statements. What type of reasoning are you using? Write a counterexample to this conjecture.

- Jane is a girl that likes chocolate.
- Amy is a girl that likes chocolate.
- Laura is a girl that likes chocolate.
- Tammy is a girl that likes chocolate.

3. Name the following using the conditional statement given:

- If I study hard, then I will get good grades.

a. Hypothesis:

b. Conclusion:

c. Converse:

d. Inverse:

e. Contrapositive