Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 2 Quest Review: Logical Reasoning

1. Write the converse, inverse, contrapositive for the following conditional statement. If the statement is false give a counterexample

Conditional Statement: If a square has 5-in. sides, then the square has area 25 in.2

Inverse:

Converse:

Contrapositive:

2. Write the biconditional statement for the conditional statement in #1. If you cannot write a biconditional statement, explain why.

For 3-4 use the law of detachment or law of syllogism to make a conclusion. If you cannot make a conclusion, explain why.

3. If you do not study, you will not get good grades. If you do not get good grades, you will not get into a good college.

4. All good tennis players are quick. Martina is a good tennis player.

5. Determine the property that was used

∠*D* ≅ ∠*C* and ∠*E* ≅ ∠*C* 4*d* = 16

∠*D* ≅ ∠*E d* = 4

6. Determine the next two terms in the pattern



3, 6, 12, 24,…

KNOW ALL PARTS OF YOUR CONDITIONAL TABLE!