Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1A-5

Logic

Use this statement for the1 - 3: **If it’s fuzzy, then it’s itchy.**

1. Write its converse:
2. Write its inverse:
3. Write its contrapositive
4. Which of the following must be proven before it’s accepted as a rule in math?

Definition Theorem Postulate

1. What’s the contrapositive of “If it’s not good, then it’s bad”?
2. What’s the inverse of “If it’s not hard, then I can handle it”
3. The statement, “If it’s yellow, then it’s a school bus” is not true. What’s a counterexample that shows it false?
4. Use the law of syllogism to make a valid conclusion:

If it’s stormy, then I can’t sleep

If I can’t sleep, then I won’t be rested.

If I’m not rested, then I won’t pass my quiz.

Conclusion:

1. What’s the converse of *p* => *~q*
2. What’s the contrapositive of *~w* => *z*