

NAME: _____

1. 060823a, P.I. G.G.26

A conditional statement is always logically equivalent to its

- [A] contrapositive [B] conjunction
[C] inverse [D] converse

2. fall0834ge, P.I. G.G.26

Write a statement that is logically equivalent to the statement "If two sides of a triangle are congruent, the angles opposite those sides are congruent." Identify the new statement as the converse, inverse, or contrapositive of the original statement.

3. 010837a, P.I. G.G.26

In the spaces provided below, write the converse, the inverse, and the contrapositive of the statement "If I run, then I am tired."

Converse: _____

Inverse: _____

Contrapositive: _____

4. 080739a, P.I. G.G.26

Given the statement: "If I live in Albany, then I am a New Yorker."

In the spaces provided below, write the inverse, the converse, and the contrapositive of this statement.

Inverse: _____

Converse: _____

Contrapositive: _____

Which conditional is logically equivalent to its original statement?

inverse converse contrapositive

[1] A _____

[2] A correct logically equivalent statement is written and identified as the contrapositive.

[1] An incorrect statement is written, but it is identified appropriately.

or [1] Contrapositive is identified, but the statement is missing or incorrect.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[2] incorrect procedure.

[3] Three correct statements are written for the converse, the inverse, and the contrapositive.

[2] Two correct statements are written.

[1] One correct statement is written.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[3] incorrect procedure.

[4] Contrapositive, and all three statements are written correctly.

[3] Contrapositive, and only two of the statements are written correctly

or [3] All three statements are written correctly, but the contrapositive is not identified.

[2] Contrapositive, and only one statement is written correctly.

or [2] Only two statements are written correctly, and the contrapositive is not identified.

[1] All three statements are written incorrectly, but the contrapositive is identified.

or [1] Only one statement is written correctly, and the contrapositive is not identified.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[4] incorrect procedure.
