

G.G.26: Identify and write the inverse, converse, and contrapositive of a given conditional statement and note the logical equivalences

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

A conditional statement is always logically equivalent to its

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

2. 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: _____

NAME: _____

3. 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

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[1] C

[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

[2] 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

[3] incorrect procedure.