Conditional Statements

Directions: Determine whether the following statements are true or false. If false, provide a counter example.

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| Conditional | Converse | Inverse | Contrapositive |
| 1. If an angle is obtuse, then it has a measure of 100 degrees. | If an angle has a measure of 100 degrees, then it is obtuse. | If an angle is not obtuse, then it does not have a measure of 100 degrees. | If an angle does not have a measure of 100 degrees, then it is not obtuse. |
| 2. If two angles are supplementary, then they add to 180 degrees. | If angles add to 180 degrees, then they are supplementary. | If two angles are not supplementary, then they do not add to 180 degrees. | If two angles do not add to 180 degrees, then they are not supplementary. |
| 3. If a shape is a square, then it is a rectangle. | If a shape is a rectangle, then it is a square. | If a shape is not a square, then it is not a rectangle. | If a shape is not a rectangle, then it is not a square. |
| 4. If an angle is acute, then it measures less than 100 degrees. | If an angle measures less than 100 degrees, then it is acute. | If an angle is not acute, then it does not measure less than 100 degrees. | If an angle does not measure less than 100 degrees, then the angle is not acute. |