

2.2/2.4: BICONDITIONAL STATEMENTS

□ Target: Write and analyze biconditional statements.

Please read Section 2.4 p.96-98 and complete the following.

Directions: Write the conditional statement and converse within each biconditional.

1. An angle is acute iff its measure is greater than 0 degrees and less than 90 degrees.

Conditional:

Converse:

2. A point is a midpoint iff it divides the segment into two congruent segments.

Conditional:

Converse:

Directions: For each conditional, write the converse and a biconditional statement.

3. If points lie on the same line, then they are collinear.

Converse:

Biconditional:

Directions: Determine if the biconditional is true. If false, give a counterexample.

4. An angle is a right angle iff its measure is 90 degrees.

Directions: Write the definition as a biconditional.

5. A quadrilateral is a four-sided polygon.
6. The measure of a straight angle is 180 degrees.

