

Day 2 – Conditional Statements Practice

Directions: Write the following statements as conditional statements.

1. Two angles are supplementary if they are a linear pair.

If two angles are a linear pair, then they are supplementary.

2. All 90° angles are right angles.

If an angle is 90° , then it is a right angle.

3. Tourists at the Alamo are in Texas.

If you are a tourist at the Alamo, then you are in Texas.

4. The measure of a straight angle is 180° .

If an angle is a straight angle, then its measure is 180° .

5. Only people who are 18 are allowed to vote.

If you are 18, then you are allowed to vote.

Directions: Write the converse of each statement. Then determine if the converse is true or false. If false, provide a counterexample.

6. If two angles are complementary, then they are both acute.

If two angles are acute, then they are complementary.

False: $25^\circ + 31^\circ \neq 90^\circ$

7. If a point is a midpoint, then it bisects the segment.

If a point bisects a segment, then it is a midpoint.

True

8. If an angle has a measure of 100° , then it is obtuse.

If an angle is obtuse, then it has a measure of 100° .

False: 125° is an obtuse angle

9. If two angles are vertical angles, then they are congruent.

If two angles are congruent, then they are vertical angles.

False: Alternate interior angles are congruent.