Lesson 2.2 Worksheet

Rewrite the conditional statement in if-then form.

- 1.) When x = 6, $x^2 = 36$
- 2.) The measure of a right angle is 90°
- 3.) Only people who are registered are allowed to vote.

For exercises 4-8, write each given statement in if-then form, then write its converse and inverse.

4.) Complementary angles add to 90°

If-then:

Converse:

Inverse:

5.) Ants are insects.

If-then:

Converse:

Inverse:

6.) 3x + 10 = 16, because x = 2.

If-then:

Converse:

Inverse:

7.) A midpoint bisects a segment.

If-then:

Converse:

Inverse:

Decide whether the statement is true or false. If it is false, then provide a counter example.
8.) If a polygon has five sides, then it is a regular pentagon.
9.) If $m \angle A$ is 85°, then the measure of the complement of $\angle A$ is 5°.
10.) Supplementary angles are always linear pairs.
Write the following statements as a biconditional statement.
11.) An angle with a measure between 90° and 180° is called <i>obtuse</i> .
12.) Two angles are a <i>linear pair</i> if they are adjacent angles whose non-common sides are opposite rays.