

Geometry

Name _____

2.3 Conditional Statements

Date _____ Hour _____

Turn the following statements into *if-then* statements and then state which part is the hypothesis, and which part is the conclusion.

1) You are a teenager, if you are at least 13 years old.

If-then statement:

Hypothesis:

Conclusion:

2) Get a free water bottle with a one-year gym membership.

If-then statement:

Hypothesis:

Conclusion:

3) Determine the truth values of the following statements based on this statement:

If you are over 18 years old, then you vote in all elections.

- a) You are 19 years old and you vote.
- b) You are 21 years old and do not vote
- c) You are 17 years old and do not vote.
- d) Your dad is 45 years old and does not vote.

4) Write the converse, inverse, and contrapositive of the following conditional statement:

Acute angles have measures less than 90 degrees.

If-then statement:

Converse:

Inverse:

Contrapositive: