

Conditional, Converse, Inverse, and Contrapositive

Name _____ Period _____ Date _____

Conditional

If (hypothesis)
If two angles are complementary
then (conclusion)
then their sum is 90°

Inverse

If (hypothesis)
If two angles are **not** complementary
then (conclusion)
then their sum is **not** 90°

Complementary
angles have the
sum of 90°

Converse

If (hypothesis)
If two angles have the sum of
 90°
then (conclusion)
then they are complementary

Contrapositive

If (hypothesis)
If two angles do **not** have the
sum of 90°
then (conclusion)
then they are **not**
complementary

1. Use the double brace map like the one above to write a **conditional statement, a converse, an inverse, and a contrapositive** for "A guitarist is a musician."

- Write the **converse**, **inverse** and **contrapositive** for each of the following conditional statements
- Determine if each of the three statements is *true or false*.
- If false, give a counter example.

2. If you do all of your homework, then you get to play video games.

Converse:

Inverse:

Contrapositive:

3. If you live in Cathedral City, then you live in California.

4. If an angle's measure is between 90° and 180° , then it is an obtuse angle.

5. Create your own conditional statement and it's **Converse**, **Inverse**, and **Contrapositive**