## Warm UP write 2 conditional statements from the biconditional statement. You eat cheese pizza iff you are not lactose intolerant. You can car pizza iff you are not lactose intolerant. You can car pizza iff you are not lactose intolerant. If you can car pizza iff you are not lactose intolerant.

## 7-2 Converse, Inverse, Contrapositive & Intro to Proofs

1. Given a conditional statement, I can write the converse, inverse, and contrapositive.

2. I can calculate angle measures of complementary and supplementary angles.

3. I can justify statements and give counterexamples.

The **converse** of a conditional statement is formed by switching your hypothesis and conclusion.  $(q \rightarrow p)$ The inverse of a conditional statement is when you negate your hypothesis and conclusion. (~  $p \rightarrow ~ q$ ) The contrapositive of a conditional statement is when you switch and negate your hypothesis and conclusion. (~ $q \rightarrow p$ ) Write the inverse, converse, and contrapositive of the conditional statement. If she is made out of wood, then she is a witch. **Converse: Inverse: Contrapositive:** 

Write the inverse, converse, and contrapositive of the conditional statement. If you are a Caveman, then you are awesome. caveman Converse: Then not a cavenan of avesome fre not avesome Inverse うりもの **Contrapositive:** 

Write the inverse, converse, and contrapositive of the conditional statement. If a polygon is a square, then it is a rectangle. he Polygon is lt's a actans Converse: avase Inverse vare then 11 5 N r ta Contrapositive: 1f its not a recta polygon is not a square



Solve for the missing angle. Explain your reasoning. 82 **У \_** Х 49**°** X air 1\_mear

