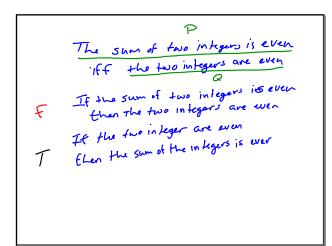
February 13, 2017

7. 9 Biconditionals and Good Definition Implications If I then Q Converse IF & then P

Biconditional (Two conditions) if than to if and only if (iff)Implication IFil is sunny then I open the window Converse If I open the window then it is sunny Bilonditional It is sunny iff I open the window



In order for a biconditional Statement to be true Both the implication and its converse must be true If both are not true then the statement is false

- Ancungle is a right angle IFF it measures 90° . If the angle is a right angle then it measures 95 It the angle measures 90" ther it is a right angle

True Biconditionals are used as good definitions in Math. They are given and accepted as true

Valid Arguments in Biconditionals R⇔Q Q R P↔Q not P ind Q