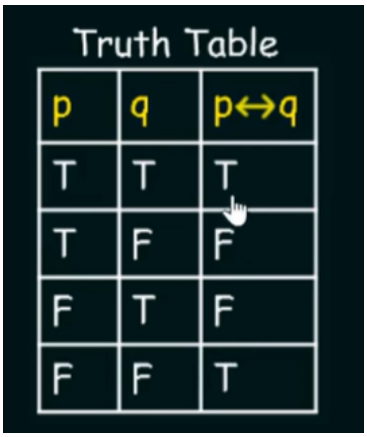
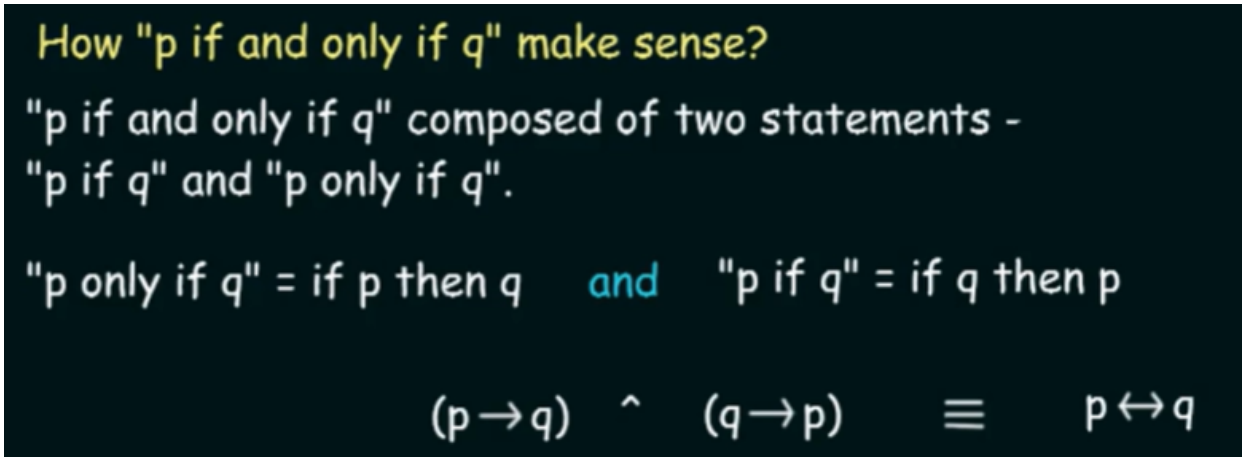
Lecture 10. Logical Operators — Biconditional Operator (双条件运算符)

Biconditional Operator（双条件运算符），通常用符号"↔"表示，是一个用于表示两个命题之间相互等价的逻辑运算符

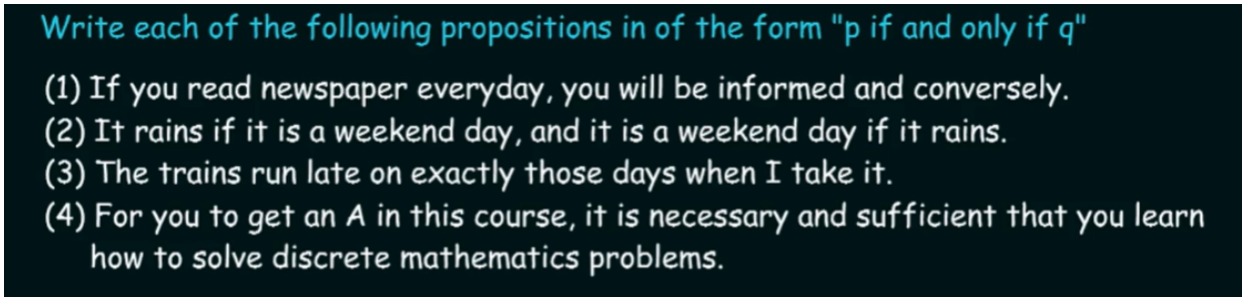




Repersentations:

1. p is necessary and suffucuent for q and voce versa (p 对于 q 来说是充分必要的，反之亦然)
2. if p then q, and conversely (如果 p 则 q，反之亦然)
3. p iff q (p 当且仅当 q)

Homework Problem:



1. You will be informed and conversely if and only if you read newspaper everyday.
2. It rains if and only if it is a weekend day.

3. The trains run late if and only if I take it.
4. You can get an A in this course if and only if you learn how to solve discrete mathematics problems.