PodClass Handout Week 5

If Rosa sits there, then she will get in trouble.
If Rosa sits there, she will get in trouble.
Provided Rosa sits there, she will get in trouble.
She will get in trouble, provided that Rosa sits there.
Should Rosa sit there, she will get in trouble.
She will get in trouble, should Rosa sit there.
When Rosa sits there, she will get in trouble.

P	Q	P → Q
T	T	T
T	F	F
F	T	T
F	F	T

You buying me a movie ticket is sufficient for me being able to go to the movies with you.
An A on the final is a sufficient condition for getting an A in the course.

If you buy me a movie ticket, then I am able to go to the movie with you.
If you get an A on the final, then you will get an A in the course.

Coming to class is a necessary condition for doing well.
Oxygen is necessary for human life.

If you are doing well in the course, then you come to class.
If there is human life, then there is oxygen.

Crina will pass only if she takes the final.
If Carina passed the class, then she took the final.

Only if Tom is president, will Bill be Vice President.
If Bill is Vice President, then Tom is president.

John will die unless he is operated on.
If John is not operated on, then he will die.
B unless A
~A → B

I will stay home unless you call.
If you do not call, then I will stay home
~C → H

I will leave the window open since it is not raining.
I will leave the window open because it is not raining.
If it is not raining, then I will leave the window open.

You will get an A in this class if and only if you work hard.
If you work hard, then you will get an A in this class.
If you get an A in this class, then you worked hard.
$W \rightarrow A$
$A \rightarrow W$
$A \leftrightarrow W$

P	Q	$P \leftrightarrow Q$
T	T	T
T	F	F
F	T	F
F	F	T