

Definitional Truth Tables

Not \neg

p	$\neg p$
F	T
T	F

It's *not* raining.

And $\&$

p	q	$p \& q$
F	F	F
F	T	F
T	F	F
T	T	T

We're in Manchester *and* we're in France.

Or $|$

p	q	$p q$
F	F	F
F	T	T
T	F	T
T	T	T

Take an aspirin *or* lie down.

Implication - If, then \rightarrow

p	q	$p \rightarrow q$
F	F	T
F	T	T
T	F	F
T	T	T

If you're late, *then* you'll give me a fiver.

Biimplication - If and only if \leftrightarrow

p	q	$p \leftrightarrow q$
F	F	T
F	T	F
T	F	F
T	T	T

I'll buy you a new wallet *if (and only if)* you need one.
