PH133 Logic Lecture 2

Lecturer: s.butterfill@warwick.ac.uk

An argument is *logically valid* just if there's no possible situation in which the premises are true and the conclusion false

Р	Q	¬(P ∧ Q)
Т	Т	
Т	F	
F	Т	
F	F	

Logical Validity

Argument 3

Argument 3b

Argument 4

P ∨ ¬P is a *logical truth*

logical truth defined p. 568

 $P \land \neg P$ is a *contradiction*

contradiction defined p. 564

Rules of proof

Proofs with conjunction (\wedge)

example

Proofs with identity

example (with missing justification)

