Fall 2026, Math 296: Week 3 Preliminary Problems
Due: Thursday, September 10th, 2026
A Brief Excursion Through Propositional Logic

Preliminary problems. These problems should be completed before discussion on Thursday.

(P1) Fill in the blanks in the following truth table for the compound proposition $\sim((\sim p)\vee(\sim q))$, with arbitrary propositions p and q as inputs.

p	q	$\sim p$	$\sim q$	$(\sim p) \vee (\sim q)$	$\sim((\sim p) \vee (\sim q))$	p___q
T	T					T
T	F					F
F	T					F
F	F					F