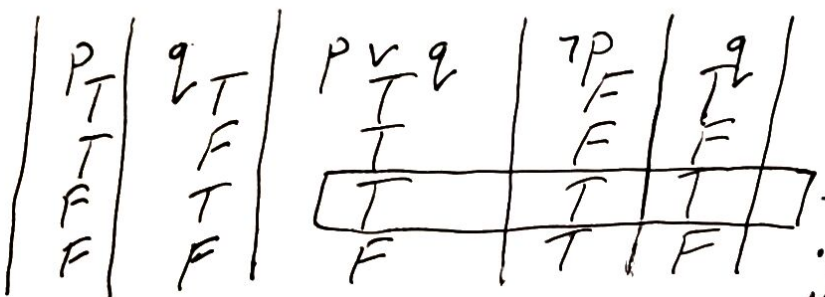
Discrete Math Problem Set: Arguments

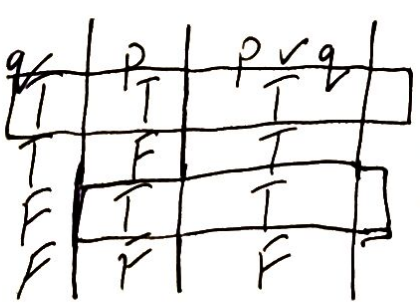
Use a Truth Table to show that the following argument form is valid

1. $p \vee q$
   $\neg p$
   $\therefore q$



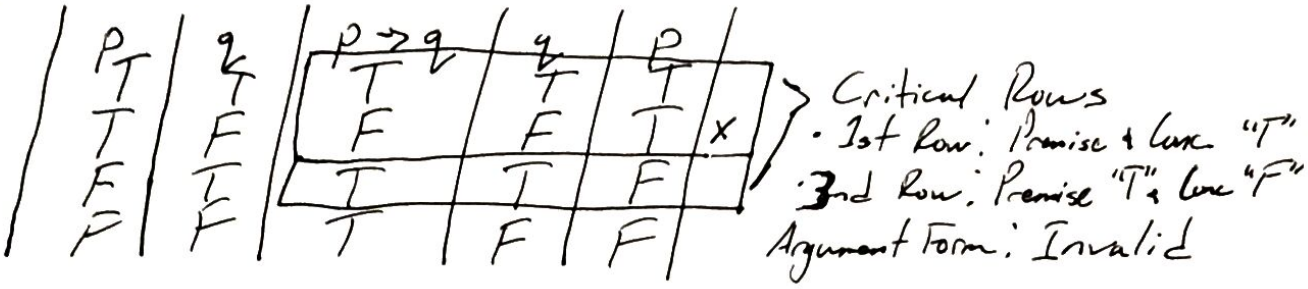
- Critical Row
- All premises & Conc "T"
- Modus Ponens
- Argument Form Valid

2. p
   $\therefore p \vee q$

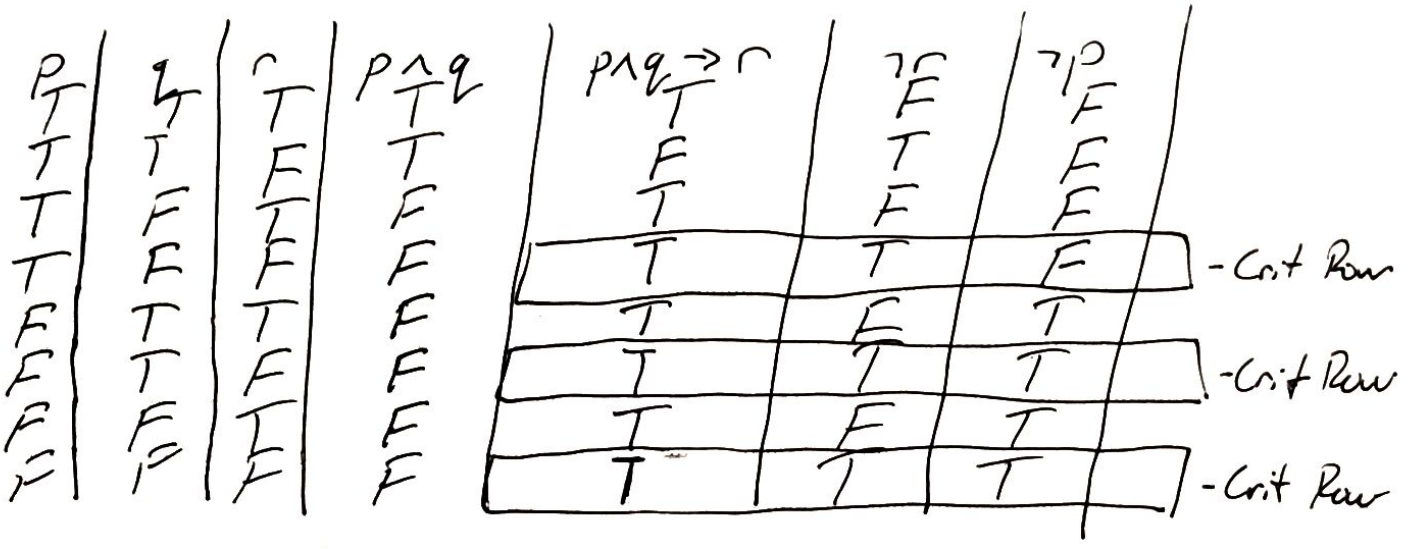


- Critical Row
- All premises & Conc. T
- Modus Ponens = Valid

3. $p \to q$
q
$\therefore p$



4. $p \wedge q \to r$
$\neg r$
$\therefore \neg p$



4th Row: Premises "T" & Conclusion "F"
Argument Form: Invalid