

CS 193 EC – Assignment for CS 182

yourName

July 2020

1 Logical Equivalences

Show that $\neg(p \rightarrow q) \equiv p \wedge \neg q$ using a truth table

p	q	$\neg q$	$p \rightarrow q$	$\neg(p \rightarrow q)$	$p \wedge \neg q$
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—	—	—	—	—	—
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2 Notes

One of the things I (Cindy, former CS 193 & 182 TA) really enjoyed about CS 182 is that the course isn't entirely technical based or programming specific. CS 182 teaches you how to think logically using deduction and mathematical induction. I hope you enjoy this course as much as I did, and as always, please reach out to your TAs and/or professors as early as possible. Best of luck to the end of your semester!