

Name: _____

CIS 351 Sample BA1 Problem

31 January 2022

BA1: Boolean Algebra

(a) Use Boolean algebra to show that $(B + \overline{C} + \overline{A}B)(BC + A\overline{B} + AC) \iff BC + A\overline{B}\overline{C}$.

(b) Apply DeMorgan's law to $\overline{A + B + C(\overline{A} + D)}$ until only single terms are negated. (In other words, your answer may contain \overline{A} , but not \overline{AB} or $\overline{A + B}$.)