Math 3345 Homework 3

Problem 1. Section 3 Exercise 14 from Falkner

Problem 2.

(a) Section 4 Exercise 5 from Falkner

(b) Section 4 Exercise 6 from Falkner

Problem 3. Section 4 Exercise 8 from Falkner

Problem 4. Section 4 Exercise 10 from Falkner

Problem 5. Section 4 Exercise 13 from Falkner

Optional problem 1. Let P, Q, R be statements. Show that the statements $P \wedge Q \Rightarrow R$ and $P \wedge \neg R \Rightarrow \neg Q$ are logically equivalent. Do this in 2 ways: using truth tables and using only words.