Homework 2
Math 3345 – Spring 2022 – Kutler

Please complete the following problems on your own paper. Solutions should be written clearly, legibly, and with appropriate style.

1. [**Falkner Section 2 Exercise 2**] Let P, Q and R be logical sentences. Prove the first Distributive Law

$$P \wedge (Q \vee R) \text{ is logically equivalent to } (P \wedge Q) \vee (P \wedge R)$$

   in two ways:

   (a) By means of a truth table;

   (b) By means of an explanation in words.