Homework 2

The exercises below are taken from the book

D'Angelo/West, Mathematical Thinking, Second Edition.

You can download the book in my webpage: Imattos.web.illinois.edu.

Solutions must be submitted on Canvas.

Due date: next Wednesday, February 8th.

In the first two items, let p and q be propositions.

- 1. Show that $\neg(p \rightarrow q)$ and $p \land \neg q$ are logically equivalent.
- 2. Show that $p \to q \equiv \neg p \lor q$.
- 3. Page 46, exercise 2.16
- 4. Page 46, exercise 2.17
- 5. Page 46, exercise 2.18
- 6. Page 49, exercise 2.53