

ASSIGNMENT 6

due Wednesday, October 17

Instructions

By Monday, October 15:

- Read pages 167-179 in Chapter 7 of TTT.

By Wednesday, October 17:

- Read the biography of Locke on pages 492-493 of Cahn.
- Start reading the following excerpts from Locke's *Essay Concerning Human Understanding*:
 - The Introduction, Sections 1, 2, 8 (starting on page 494)
 - Book I, Chapter I, Sections 1-5 (495; the thesis that no ideas are innate)
 - Book II, Chapter I, Sections 1-5 (496; the source of ideas, operations of the mind)
 - Book II, Chapter II, Section 1 (498; simple ideas)
 - Book II, Chapter III, Section 1 (499; simple ideas of sense)
 - Book II, Chapter VI, Sections 1,2 (500; simple ideas of reflection)
 - Book II, Chapter VIII, Sections 7-14 (502; primary and secondary qualities)
 - Book II, Chapter XI, Section 4,6,8,9 (507; operations of the mind)
 - Book II, Chapter XII, Section 1 (509; complex ideas)
 - Book IV, Chapter I, Sections 1-7 (544; knowledge in general)

Enjoy the midsemester break, Friday, October 19 and Monday, October 22. You need not finish the Locke reading until after the break.

Homework assignment

1. Is the rule "from $x + 1 = y + 1$ conclude $x = y$ " valid, in the context of Boole's logic? Explain.
2. Using variables to stand for the basic propositions and the symbols of Boole's logic, find a representation of the following sentence: "If John went to class on Monday and took notes, or if he did not go to class on Monday but copied the notes from someone else, then he could answer all the questions on the homework." (Note that "but" in this sentence functions as "and.")
3. TTT, study question 1 on page 128.
4. TTT, study question 3 on page 129.
5. Using a predicate "Tall(x)" and a relation "Loves(x,y)", express the following in (the first-order part of) Frege's logic, assuming the quantifiers range over people in Shakespeare's story:
 - a. Romeo is tall and loves Juliet.
 - b. Juliet is not tall.
 - c. Someone loves Juliet.

- d. Romeo loves someone who is not tall. (Hint: read this as the assertion “There is someone who Rome loves and who is not tall.”)
- e. Everyone Romeo loves is not tall. (Hint: read this as the assertion, “Given any person, if Romeo loves that person, then that person is not tall.”)

Thought questions

1. TTT, study questions 1 and 3 on pages 112-113.
2. TTT, review questions on page 113.
3. TTT, study question on page 120.
4. TTT, study questions 1 and 2 on page 125. (Study question 3 is optional.)
5. TTT, study questions 2 and 4 on page 129.