

**Reading:** Lectures next week will still be in the domain of sections 1.1–1.6 from the previous reading assignment, but they and recitations will draw on concepts in 2.1–2.3, so please read ahead to them. It is OK at this point just to skim or skip sections 1.7–1.8.

Answers to the assignment must be in *hardcopy only*—e-mailed submissions will not be accepted. If you need an extension on any assignment for a concrete reason, you must e-mail me (**regan**) at least one full day in advance. Multiple pages **must be stapled** together—carry a little stapler in your pocket if (like me:) you finish them just-before. Answers must be “College Answers”—meaning they must re-state the question enough that a reader could follow without consulting the text.

(1) Rosen, page 13, exercise 10, all parts. ( $8 \times 3 = 24$  points)

(2) Rosen, page 12, exercise 12, **part (e) only**. After you express it as an English sentence, simplify the condition in the sentence, and then see if it gives you a simpler equivalent logical formula. (12 points total)

(3) Rosen, page 13, exercise 13, all parts. Assuming it is still true that this is in the provided answer key, you still get 7 pts. for this.

(4) Rosen, page 15, 24(a–d). ( $4 \times 3 = 12$  pts.)

(5) Rosen, page 15, 26(a–d). ( $4 \times 3 = 12$  pts.)

(6) Rosen, page 35, 9(b,c,e,f). Include “helper” columns for the right and left halves of the latter two. ( $3 + 3 + 6 + 6 = 18$  pts., please do without consulting answer)