CSE191, Spring 2011 Assignment 1 Makeup Due Wed. 2/2, in class

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 17, 12(f). Then find an equivalent, simpler way to say it in English, and translate that back into a logical formula. (3+3+3 = 9 pts.)

(2) Rosen, page 17, 11(a–g), i.e., all parts. Do WITHOUT looking in the answer book, then check your answers. You still get 7 pts. for this.

(3) Rosen, page 17, 14(c,f) only. Answer to (e) may still be open at `http://www.cse.buffalo.edu/~rapaport/191/F10/hw.html`, which you are welcome to consult (but not print!) if it stays open. (3+9 = 12 pts.)

(4) Rosen, page 18, (a–d). ($4 \times 3 = 12$ pts.)

(5) Rosen, page 18, 22(a,c,e,g). As part of the answer to (g), does a bi-conditional reading make sense here? ($4 \times 3 + 3 = 15$ pts.)

(6) Rosen, page 19, 32(b,c,e,f). Include "helper" columns for the right and left halves of the latter two. ($3 + 3 + 6 + 6 = 18$ pts.)

(7) Construct a truth table for $p \longrightarrow (q \longrightarrow (r \longrightarrow s))$. (9 pts.)

(8) Rosen, page 35, exercise 33, OK to check your work with answer supplement. (3 pts., for 85 total on the set)