Provide a question to be used on the final exam, together with the answer for the exam key. Your question should provide a good test of some part of the material we have discussed this semester, and it should have enough parts to count for 20 points. It must not be a direct copy of an exercise from the book, practice problems, or exams, but of course you may look to those problems as models for your own. A trivial* or directly copied problem will not get points, nor will one with a wrong answer. I may do some editing to make the exam consistent, but I will use at least two student-supplied questions on the final and you want yours to be selected, so you will be able to answer that one easily. So think seriously and carefully write and draw a concise, unambiguous question & answer.

*For instance, “What is the atomic number of hydrogen?”, “How many bonds does sp\(^3\) carbon form?”, or “What is the formula of ethane?” would count as trivial questions.

SEE PAGE TWO for some comments on the final exam and the overall grading calculations.
A note about the final and grading: Several of you have asked or E-mailed about the final exam and the grading process so here is a general description of the final and an example of the grading scheme. The final will be 10 questions long of which you should answer 8, so each question is 25 points. It will be roughly 1/4 to 1/3 focused on chapters 12, 13, and 14, and the rest on the remaining body of the course material. For study purposes, besides the book chapters themselves, you should look at the suggested problems in the syllabus, the three midterms we have had, and the various quizzes we have had. As for review sessions, we will have our regular Monday night session Dec. 1 and I will attempt to make arrangements for a Sunday evening review session next week. The early "makeup" exam is scheduled for Monday evening, 7:30-9:30 or so, in Wonders Hall, Room 100. You will need to be able to show your ID at the final.

Lots of questions prompt me to give you the following example of the grading scheme we have defined in the syllabus. Let us say a student has the following scores on midterms and quizzes:

**Midterms:** 68, 53, 58; **Quiz total:** 70; **Final exam:** 126

Of her/his 6 possible 100 point units (final = 126 = 2 x 63), the 53 was the worst, so that is dropped, and the grade is computed from the other scores as 68+58+70+126 / 500 = 322 / 500 = 64% which is a 2.5. In addition, the quiz total is also optimized by throwing out your worst quiz of the 120 possible points.

**News!** If your final exam percentage is higher than that computed via to the above algorithm, your final grade will be calculated from the final exam alone. In other words, if the person above had gotten 146 on the final, their summed percentage would have been 68+58+70+146 / 500 = 342 / 500 = 68% (a 2.5), but the final exam’s percentage would be 146 / 200 = 73% (a 3.0), so despite having struggled a bit during the term, they would move up because they had managed to “put it all together” by the time of the final. However, it is my experience that this pulling up is rare, because of the cumulative nature of the final.

If the class average comes out too low, some adjustment (“curving”) is possible, but with the above optimization, it probably won’t be needed.