MATH 216 PROBLEM SET 7

(The notes this week don't cover the half-class on visualizing nonreduced schemes; I haven't yet typed that up.)

This set is due at noon on Friday, November 13. Hand it in to Jack Hall (jhall@math) in the big yellow envelope outside his office, 380-U.

Please *read all of the problems*, and ask me about any statements that you are unsure of, even of the problems you won't try. Hand in at least thirteen solutions, where each "-" problem is worth half a solution. If you are ambitious (and have the time), go for more. Up to two can be from earlier problem sets if you'd like. You should do the starred problems unless you have seen them before. Try to solve problems on a range of topics. You are encouraged to talk to each other, and to me, and to Jack, about the problems. Some of these problems require hints, and I'm happy to give them!

Problems (from the November 5 version of the notes):

6.2.A, 6.2.B-, 6.2.C*, 6.2.D, 6.3.A-, 6.3.B-*, 6.3.C*, 6.3.D, 6.3.E**, 6.3.F**, 6.3.G-, 6.3.H, 6.4.A-, 6.4.B-*, 6.4.C, 6.4.D-, 6.4.E, 6.4.F, 6.4.G, 6.4.H, 6.4.I, 6.4.J, 6.4.K, 6.4.L, 6.4.M, 6.4.N, 6.4.O, 7.1.A-, 7.1.B-, 7.1.C*, 7.1.D-*, 7.1.E-, 7.1.F-, 7.1.G, 7.1.H, 7.1.I*.

The usual additional (mandatory!) question: (a) Which problems did you particularly like, and why? (b) Which ones did you like less? (c) What is the most confusing topic so far?

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