

MATH 216 PROBLEM SET 10

This set is due at noon on Monday, January 18. Hand it in to my mailbox by 5 pm. You can also give it to me in class.

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 fifteen solutions (more than usual because you have more time), where each "-" problem is worth half a solution, and each "+" problem is worth two solutions. If you are ambitious (and have the time), go for more. Up to two can be from earlier problem sets if you'd like. Try to solve problems on a range of topics. You are encouraged to talk to each other, and to me, and to anyone else, about the problems. Some of these problems require hints, and I'm happy to give them! I'll try to not too far behind on email while in Germany next week, so feel free to ask questions even while I'm away.

Problems from the January 6 version of the notes: 7.5.A-, 7.5.B-, 7.5.C, 7.5.D, 7.5.E-, 7.5.F-, 7.5.G, 7.5.H, 7.5.I, 7.5.J, 8.2.A+, 8.2.B, 8.2.C (perhaps that exercise should be put later in the section), 8.2.D, 8.2.E+, 8.2.F+, 8.2.G, 8.2.H+, 8.2.I-, 8.2.J+, 8.2.K, 8.3.L, 8.3.M, 8.4.A, 8.4.B, 8.4.C, 10.6.A, 10.6.B+, 10.6.C-, 10.6.D, 10.6.E, 10.6.F, 10.6.G, 10.6.H, 10.6.I, 10.6.J, 10.6.K, 10.6.L, 10.6.M, 11.1.A, 11.1.B, 11.1.C, 11.1.D, 11.1.E, 11.1.F, 11.1.G, 11.1.H-, 11.1.I-, 11.1.J-, 11.1.K-, 11.2.A, 11.3.A, 12.1.A+, 12.1.B.

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? (Thanks to everyone who has answered this question in the past!)

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